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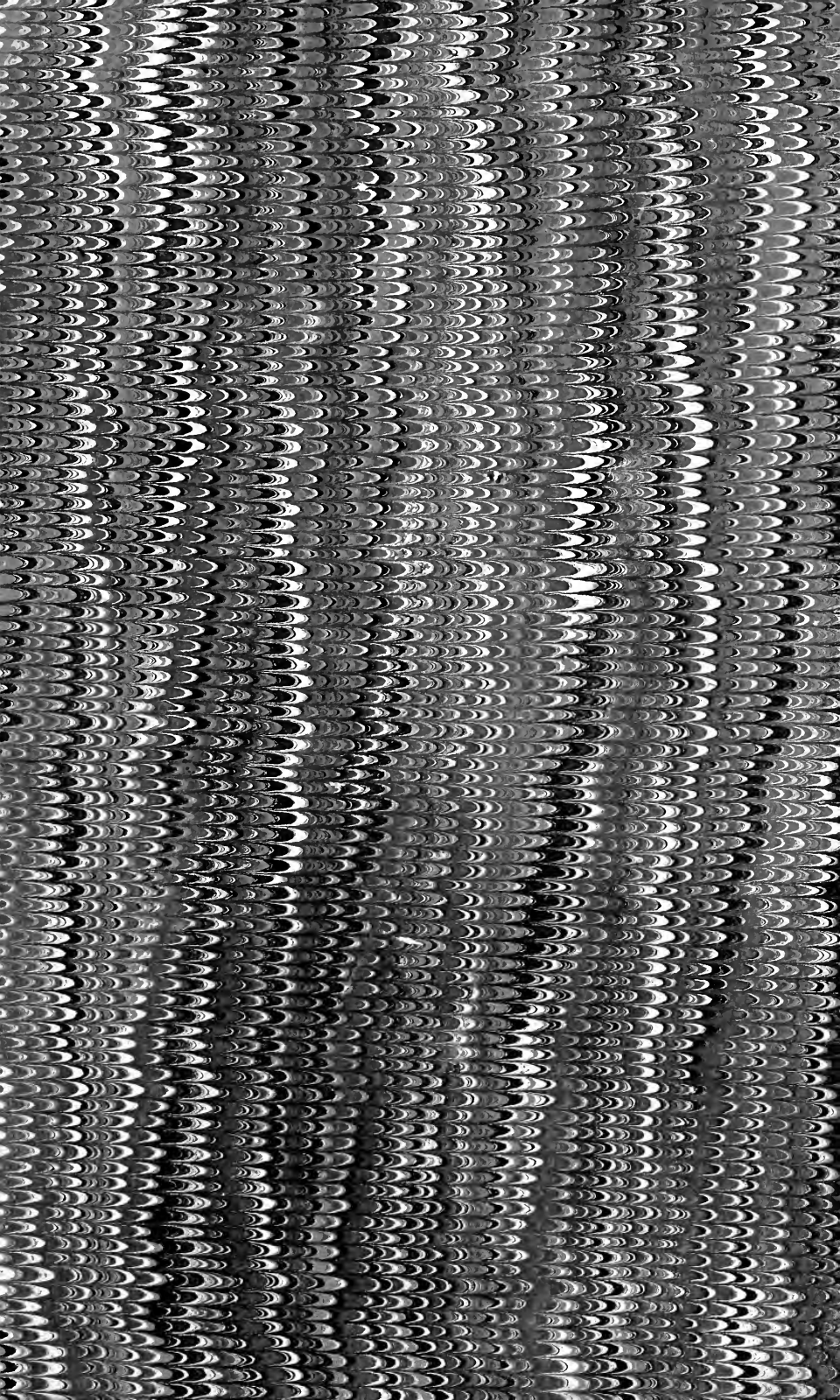
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CATALOGUE

OF

HUMAN CRANIA,

IN THE COLLECTION OF THE
ACADEMY OF NATURAL SCIENCES
OF PHILADELPHIA:

Based upon the Third Edition of Dr. Morton's "Catalogue of Skulls," &c.

BY,
J. AITKEN MEIGS, M. D.

Librarian of the Academy of Natural Sciences of Philadelphia, &c.

"Of all the peculiarities in the form of the bony fabric, those of the skull are the most striking and distinguishing. It is in the head that we find the varieties most strongly characteristic of different races."—PRICHARD.

"Hence our zoological study of man will be greatly assisted by carefully examining genuine specimens of the skulls of different nations, which are easily prepared and preserved, may be conveniently handled and surveyed, considered in various points of view, and compared to each other."—LAWRENCE.

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EXPLANATORY NOTE.

Since the death of the late lamented President of the Academy of Natural Sciences,—DR. SAMUEL GEORGE MORTON,—his magnificent Collection of Human Crania, recently increased by the receipt of 67 skulls from various sources, has been permanently deposited in the Museum of the Academy. Prior to his demise, Dr. M. had received 100 crania in addition to those mentioned in the third edition of his Catalogue. Since 1849, therefore, the Collection has been augmented by the addition of 167 skulls. To complete the Catalogue in a uniform manner, these have been carefully numbered and measured in accordance with the methods recorded in the *Crania Americana*, &c. In a portion of these measurements I was kindly assisted by our fellow-member, Dr. Thos. J. Turner of the United States Navy.

The entire Collection,—numbering 1035 crania,—was purchased by forty-two gentlemen* from the executors of Dr. Morton, for the sum of \$4,000, and by them generously presented to the Academy.

The Collection occupies 16 cases on the first gallery, on the south side of the lower room of the Museum. For convenience of study and examination I have grouped the crania according to Race, Family, Tribe, &c., strictly adhering, however, to the classification of Dr. Morton. It will be seen, also, that the same arrangement has been adopted in this edition of the Catalogue, so that it is an exact representation of the Collection as it stands upon the shelves. While the old numbering has been carefully preserved for the sake of reference to the various published descriptions of Dr. Morton, new numbers have been added to designate the position of any skull in the natural division or subdivision to which it belongs.

The Suevic, Cimbric and Scandinavian divisions of the great Teutonic Race, are represented by 32 crania and 3 casts, distributed as follows :

*Their names are as follows :—Charles Henry Fisher, Thomas Biddle, Henry J. Williams, Charles D. Meigs, Thomas T. Lea, John Farnum, John A. Brown, William Welsh, Richard Price, Morris L. Hallowell, Joseph D. Brown, William Platt, Joseph Swift, Singleton A. Mercer, A. J. Lewis. Geo. W. Carpenter, Geo. B. Wood, J. Francis Fisher, David S. Brown, John B. Meyers, Lewis R. Ashhurst, Caleb Cope, Richard D. Wood, Samuel V. Merrick, James Dundas, J. Pemberton Hutchinson, Henry Pepper, John Cooke, John Lambert, Robert Pearsall, Joseph S. Lovering, J. G. Fell, Caspar W. Pen-nock, John Grigg, Joseph Jeanes, Thomas P. Remington, John Price Wetherill, Henry Seybert, Thomas McEwen, Robert Swift, Jacob G. Morris, and Wm. S. Vaux. (See *Proceedings of the Academy*, Vol. VI. pp. 321, 324.

1 Norwegian, 7 Swedish peasants, 2 Swedes from Finland, 3 Swedes from Sudermanland, 1 Ostrogoth, 1 Turannic Swede, 2 Cimbric Swedes, 1 Cimbrian from Moën Island, 11 Germans, 1 Dutchman, 4 Prussians, and 1 Ancient Burgundian. Among these I have also placed 3 Swedish-Finns, which, though mixed, are more Swedish than Finnish. Next to these from their affinity, have been arranged the heads of 9 true Finns and a cast of a Finlander's skull.

Of 4 Swedish peasants, the highest internal capacity is 99, the lowest 65, while the average of the group is 83 cubic inches. Of 2 Swedes from Finland, the larger is 107.5, the smaller 93.75, and the mean 100.62. Of 3 Swedes from Sudermanland, the highest measurement gives 108.25, the lowest 102, and the mean 101.41 inches. Of two Cimbric Swedes, the higher is 94, the lower 80, the mean 87. Of 10 German heads, the highest is 104, the lowest 70, and the mean of the series 88.6. The skull of a Dutch gentleman (No. 434) is the largest in the entire collection, for it measures 114 cubic inches of internal capacity. Four Prussian skulls give 92 for the highest, 80 for the lowest, and 83.5 for the mean. The average for this branch of the Teutonic Family, as deduced from the foregoing measurements is about 94 cubic inches.

Of 3 Swedish Finns, the highest internal capacity is 89, the lowest 85, and the mean 87 inches. Of 9 true Finns, the highest is 112.5, the lowest 81.5, the mean 94.3. A large portion of this valuable series—from Nos. 1545 to 1550, and from 1542 to 1541,—were received from Prof. Retzius, after the death of Dr. Morton.

Many of the above Crania "have been obtained from hospitals and institutions for paupers, whence we may infer that they pertain to the least cultivated portion of their race."* The brief histories attached to Nos. 1539, 1540, 1542 and 1546, were written in the Danish language, on slips of paper, which had been placed in the cavity of each cranium. Of these I obtained translations through the kindness of Dr. L. Elsberg.

The Anglo-Saxon race differs from the Teutonic in having a less spheroidal and more decidedly oval cranium.

"I have not hitherto exerted myself to obtain crania of the Anglo-Saxon race, except in the instance of individuals who have been signalized by their crimes; and this number is too small to be of any importance in a generalization like the present. Yet, since these skulls have been procured without any reference to their size, it is remarkable that five give an average of 96 cubic inches for the bulk of the brain; the smallest head measuring 91, and the largest 105 cubic inches. It is necessary to observe, however, that these are all male crania; but on the other hand, they pertained to the lowest class of society, and three of them died on the gallows for the crime of murder."

* This and the following quotations are taken from the unfinished memoir left by Dr. Morton. The MS was kindly loaned to me by his son, Mr. Robert P. Morton.

"The Anglo-Americans, the lineal descendants of the Anglo-Saxons, conform in all their characteristics to the parent-stock. They possess, in common with their English ancestors, and in consequence of their amalgamation, a more elongated head* than the unmixed Germans. The few crania in my possession have, without exception, been derived from the lowest and least cultivated portion of the community—malefactors, paupers and lunatics. The largest brain has been 97 cubic inches; the smallest, 82; and the mean of 90 (nearly) accords with that of the collective Teutonic race. The sexes of these 7 skulls are 4 male and 3 female."

"The Celts who, with the cognate Gauls, at one period, extended their tribes from Asia Minor to the British Islands, are now chiefly confined as an unmixed people to the west and south-west of Ireland, whence have been derived the 6 crania embraced in the Catalogue. These range between 97 as a maximum and 77 as a minimum of the size of the brain; and the mean, which is 87 cubic inches, will probably prove to be above that of the entire race and not exceed 85."

In the following table, the reader will find some of the European races compared together in relation to their cranial capacities.

TABLE I.
EUROPEAN CRANIA.

	FINNS.		SWEDES.		GERMANS.		ANGLO-SAXONS.		ANGLO-AMERICANS.		KELTS.		CIMBRI.	
	No. in Catalogue.	I. C.	No. in Catalogue.	I. C.	No. in Catalogue.	I. C.	No. in Catalogue.	I. C.	No. in Catalogue.	I. C.	No. in Catalogue.	I. C.	No. in Catalogue.	I. C.
MALE SKULLS.	1534	94.5	1486	99.	706	94.	80	91	552	97	21	93	1255	80
	1535	97.5	1545	107.5	1063	86.	539	92	999	91	42	97	1532	80
	1536	112.5	1546	93.75	1188	85.	991	105	1108	95	52	82	1550	94
	1537	84.25	1547	102.	1189	78.	59	99			985	93		
	1538	105.	1548	94.	1191	95.					1186	77		
	1539	81.5	1549	108.25	1187	104.					1564	87.5		
	1540	88.5			434	114.								
	1541	99.			1065	92.								
					1066	80.								
	Mean.	95.34		100.75		92.		96.75		94.33		88.25		84.66
FEMALE SKULLS.			1247	85.	1064	91.			7	83.	18	78.	1249	83
			1487	65.	1062	93.			24	82.				
					1192	82.								
					1193	80.								
	Mean of two Sexes.			94.31		90.3				89.6		86.78		84.25

In the above table, the reader will observe the high cranial capacities of the Swedes, Finns, and Germans; he will also perceive that the Anglo-

* "This peculiarity must continue to develop itself still more obviously in the United States, in consequence of the immense influx of a pure Celtic population from the south and west of Ireland; for this population by intermarriage with families of English and German descent, while it rapidly loses its own national physiognomy, will leave its traces in a part at least of the Anglo-Saxon race by whom it is every where surrounded."

Saxons and Anglo-Americans possess the same large average; while the mean for the Kelts and Cimbri is several inches less. It is a curious fact, that in the column marked "Kelts," Nos. 21, 42, 52, and 985 exhibit the Gothic type, and have generally the high internal capacity of the Northern races; while Nos. 18, 1186, and 1564, which are of the Cimbric type, possess a lower internal capacity. The Table is not extensive enough to base upon this interesting fact any positive conclusion; but as far as this fact goes, it appears to indicate that the Cimbric and Keltic types of skull are closely allied, if not indeed identical.

"I much regret that my cranial series possesses but a single example derived from the Slavonic race, the skull of a woman of Olmutz, sent me by Prof. Retzius, and which measures only — inches.* I record this deficiency in my collection, in the hope that some person interested in pursuits of this nature may be induced to provide me with materials for making the requisite comparisons. My impression is that the Slavonic brain will prove much less voluminous than that of the Teutonic race."

"I do not use the term *Pelasgic* with ethnological precision, but in this designation place the Greeks and Romans, and their descendants in various parts of Europe, Greece and Italy, and in more isolated examples, in Spain, France and Britain. In the same category I place the Persians, Armenians, Circassians, Georgians and many other kindred tribes, together with the Græco-Egyptians.

"Of 4 adult Circassian crania, brought me by Mr. Gliddon, two are male and two female. The former, which we may suppose, from appearances, to have been associated with a full share of manly beauty, measure 90 and 94 cubic inches of internal capacity; the female heads measure 79 and 80; whence we obtain 86 cubic inches as the mean of all. One of these skulls, that of a woman who had passed the prime of life, is remarkable for the harmony of its proportions, and especially for the admirable conformation of the nasal bones.

"Of 4 adult Armenian skulls, 3 pertain to men; and the average size of the brain is but 83 cubic inches. I have felt some hesitancy in admitting these skulls in this place, for two reasons: 1st, because their characteristics incline almost as much to the Arab type as to the *Pelasgic*; and 2dly, because the term Armenian is not always used in a strictly national sense in the East, but is applied to a class of merchants whose ethnological affinities must be often very mixed and uncertain.

"I possess, through the kindness of Mr. Gliddon, two female *Parsee* skulls, which, though small, present a beautiful form. One measures 89 cubic inches, the other only 75."

Of 23 Græco-Egyptian heads, the highest internal measurement is 97 cubic inches, the lowest 73, and the mean 86.11, which is about "7 cubic inches above that of the pure Egyptian race, and but three inches less than the average I have assumed for the Teutonic nations. * * * *

* I find upon examination, that this head, in its present condition, is incapable of measurement, in consequence of the presence of the falx cerebri and tentorium.

Some of these present the most beautiful Caucasian proportions, while others merge by degrees into the Egyptian type; and I am free to admit that in various instances I have been at a loss in my attempts to classify these two great divisions of the Nilotic series."

The Semitic race "includes the Chaldeans, Assyrians, Syrians, and Lydians of antiquity, together with the Arabians and Hebrews."

"Five of my embalmed Semitic heads are susceptible of measurement; and give the low average of 82 cubic inches—the largest measuring 88; the smallest 69.* In these crania, and also in others of existing Semitic tribes, I have looked in vain for the pit described by Mulder as situated on the outer wall of the orbit at the attachment of the temporal muscles; and consequently there is no trace of the corresponding elevation, also described by him, within the orbital cavity.

"I have had but little success in procuring the crania of the modern Semitic tribes; and for the 3 that I possess, I am indebted to Mr. Gliddon. Of these, two are Baramka, or Barmecide Arabs; the third a Bedouin. The largest measures 98 cubic inches; the smallest 84; and the mean is 89; but if we take the average of these 8 Semitic heads, ancient and modern, it will be 85 inches."

The Nilotic race comprises the ancient Egyptians of the pure stock, and the modern Fellahs. Most of the Egyptian skulls were presented by Messrs. G. R. and W. A. Gliddon, A. C. Harris, of Alexandria, in Egypt, and Dr. Chas. Pickering. Of the 88 crania which present the Egyptian conformation, 55 are capable of measurement. At least eleven of these heads "are of the unmixed type, and present the long, oval form, with a slightly receding forehead, straight or gently aquiline nose, and a somewhat retracted chin. The whole cranial structure is thin, delicate, and symmetrical, and remarkable for its small size. The face is narrow, and projects more than in the European, whence the facial angle is two degrees less, or 78°. Neither in these skulls, nor in any others of the Egyptian series, can I detect those peculiarities of structure pointed out by the venerable Blumenbach in his *Decades Craniorum*; and the external meatus of the ear, whatever may have been the form or size of the cartilaginous portion, is precisely where we find it in all the other races of men. The hair, whenever any of it remains, is long, curling, and of the finest texture."

"On comparing these crania with many *fac similes* of monumental effigies, most kindly sent me by Prof. Lepsius and M. Prisse d'Avesnes, I am compelled, by a mass of irresistible evidence, to modify the opinion expressed in the *Crania Ægyptiaca*—viz: that the Egyptians were an Asiatic people. Seven years of additional investigation, together with greatly increased materials, have convinced me that they were neither Asiatics nor Europeans, but aboriginal and indigenous inhabitants of the Valley of the Nile, or some contiguous regions;† peculiar in their phy-

* *Crania Ægyptiaca*, pp. 41 and 46, and the accompanying plates.

† This opinion, with some modifications, has been entertained by several learned Egyptologists—Champollion, Heeren, Lenormant, &c.

siognomy, isolated in their institutions, and forming one of the primordial centres of the human family."

Of the 55 measured Egyptian heads, the largest measures but 96 cubic inches; the smallest 68; while the mean of all is about 80. The crania from the ancient tombs of Gizeh give an average of about 84 inches. Concerning these Dr. Morton says: "The persons whose bodies had reposed in these splendid mausolea were, no doubt, of the highest and most cultivated class of Egyptian citizens; and this fact deserves to be considered in connection with the present inquiry. To this we may add that the most deficient part of the Egyptian skull is the coronal region, which is extremely low, while the posterior chamber is remarkably full and prominent."

Of 19 Fellah skulls, the highest measurement is 96 cubic inches; the lowest 66; and the mean of all about 79. Nos. 771, 772, and 773 were sent by Mr. Gliddon as Jewish crania, but Dr. Morton, guided by their form, has classified them, perhaps erroneously, with the Fellahs. Mr. Gliddon, in a note in "Types of Mankind" (p. 723, No. 390) says: "They came from the old Jewish burial-ground, behind Muss'r-el-Ateeka, on the desert, toward Bussateen; and no Muslim is interred near a Jew."

From the form of the skull, the mental and moral character of the people, and their existing institutions, such as phallic worship, Dr. Morton considers these Fellahs or Arab-Egyptians of the present day to be the lineal descendants of the ancient rural or agricultural Egyptians blended with the intrusive Arabian stock.

"The skull of the Fellah is strikingly like that of the ancient Egyptian. It is long, narrow, somewhat flattened on the sides, and very prominent in the occiput. The coronal region is low, the forehead moderately receding, the nasal bones long and nearly straight, the cheek-bones small, the maxillary region slightly prognathous, and the whole cranial structure thin and delicate. But notwithstanding these resemblances between the Fellah and Egyptian skulls, the latter possess what may be called an *osteological expression*, peculiar to themselves, and not seen in the Fellah."

"Of 35 adult Indostanic skulls in the collection, 8 only can be identified with tribes of the Ayra* or conquering race; nor even in this small number is there unequivocal proof of the affinity in question. The largest head in the series, that of a Brahmin, who was executed in Calcutta for murder, measures 91 cubic inches for the size of the brain—the smallest head 79. Two others pertain to *Thuggs*, remarkable for an elongated form and lateral flatness. The mean of these Ayra heads is 86 cubic inches."

* A fair race, with Sanscrit speech, whose primal seats were in Eastern Persia. They now occupy the country between the Himalaya Mountains on the North, the Vindya on the South, and between the Indian Ocean and the Bay of Bengal—a region known as *Ayra, varta*, or India Proper.

"Contrasted with this people, and occupying the country adjacent to the Bay of Bengal, are the *Bengalees*—small of stature, feeble in constitution, and timid in disposition. They are obviously an aboriginal race, upon whom a foreign language has been imposed; and are far inferior, both mentally and physically, to the true Ayras. Weak and servile themselves, they are surrounded by warrior castes; and perhaps the most remarkable feature of their character is the absence of will, and implicit obedience to those who govern them."

Of these child-like people, the Collection embraces 26 adult crania, of which the largest measures 90 cubic inches; the smallest 67; and the mean of all is 78.

The Mongolian group has received several additions since the death of Dr. Morton. It is at present represented by 17 crania and 4 casts, distributed as follows:—11 Chinese, 1 Japanese, 1 Burat-Mongol, 1 Kamschatkan, 1 Kalmuck, 5 Laplanders, and 6 Eskimos.

Of ten Chinese crania, the largest measures 98 cubic inches; the smallest 70; while the mean is about 85. Through the kindness of Mr. Cramer, of St. Petersburg, a well marked Kalmuck skull has been added to the Collection. It measures 93.75 cubic inches of internal capacity. Two true Laplander's skulls measure respectively 94 and 102 inches; while a hybrid Lapland skull gives 78.75. Of the 4 Eskimo crania, presented by the late Dr. E. K. Kane, the largest internal capacity is 98; the smallest 80.5; giving a mean for all of 85.94. During his stay in this city, Mr. Combe, the Phrenologist, loaned to Dr. Morton three Eskimo skulls, which were brought from the Polar regions by Capt. Parry. The average measurement of these was 86.83 inches.* The mean size of the brain of this remarkable and interesting Hyperborean people, (as deduced from this series of 7 skulls,) is therefore about 86.32 inches.

The Malay group comprises 26 crania of Malays proper, and 12 Polynesians. The largest Malay skull measures "97 cubic inches; the smallest 68; and they give a mean of 86; a large brain for a roving and uncultivated people, who possess, however, the elements of civilization and refinement." The largest portion of this series has been collected with ethnological precision, "and so much resemble each other as to remind us of the remark of Mr. Crawford—that the true Malays are alike among themselves, but unlike all other nations. * * * * They have a rounded cranium, with a remarkable vertical diameter and ponderous structure. The face is flat, the cheek-bones square and prominent, the ossa nasi long and more or less flattened, and the whole maxillary structure strong and salient."

The Polynesian family is represented by 7 Kanaka, 1 New Zealand and 1 Marquesan skulls. The Kanaka crania give a mean of 83 cubic inches of internal capacity.

The great American group is, in several respects, well represented in the Collection. It includes 490 crania, and 13 casts, making a total of 503

* *Crania Americana*, p. 247.

from nearly 70 different nations and tribes. Of this large number 256 belong to the Toltecan Race,* and 247 to the Barbarous Tribes scattered over the continent. It will thus be seen that they are nearly equally divided between the two primary divisions of this group.

Of 164 measurements of crania of the Barbarous Tribes, the largest is 104 cubic inches; the smallest 69; and the mean of all 84. One hundred and fifty-two Peruvian skulls give 101 cubic inches for the largest internal capacity, 58 for the smallest, and 75.3 as the average of all. Of 25 skulls of the Mexican Family, the largest measures 92; the smallest 67; while the mean is 81.7 inches. The number of cranial measurements and the means of these measurements for the different tribes, &c., of the two American Families, are given below in a tabular form.

TABLE II.
AMERICAN CRANIA.

BARBAROUS TRIBES.	No. of skulls measured.	Mean I. C.	BARBAROUS TRIBES.	No. of skulls measured.	Mean I. C.
<i>North Americans.</i>			Miscellaneous, } Mound, Caves, } Uncertain, &c. }	27	84.8
Arickarees.....	3	76	<i>Central American.</i>	1	91
Assinaboins.....	3	90	<i>South Americans.</i>		
Chenouks.....	4	79	Araucanians.....	7	76
Oregon Tribes.....	5	82	Brazilians.....	3	73.6
Cherokees.....	4	88.7	Charib.....	1	89
Chetimaches.....	2	79.5			
Chippeways.....	2	91	<i>TOLTECAN RACE.</i>		
Cotonay.....	3	86	<i>Peruvian Family.</i>		
Creeks.....	4	88.7	Arica.....	14	79
Dacota.....	1	90	Pachacamac.....	77	74.9
Hurons.....	4	81.5	Pisco.....	44	74
Iroquois.....	2	96	Santa.....	5	78
Lenape.....	4	79.5	Lima.....	5	78
Lipans.....	2	91.5	Miscellaneous.....	7	75.5
Mandans.....	7	83.5			
Menominees.....	7	84	<i>Mexican Family.</i>		
Miamis.....	5	86	Tlahuica.....	1	84
Minetaris.....	4	86.5	Azteck.....	2	80.5
Mohawks.....	3	84	Otumba.....	3	82.6
Narragansetts.....	10	81	Tacuba.....	3	81.6
Osage.....	2	82.5	Otomie.....	5	76.6
Otoes.....	3	85.6	Chechemecan.....	1	83
Ottawas.....	4	81.7	Tlascalan.....	1	84
Ottigamies.....	2	93.5	Pames.....	2	79.5
Pawnees.....	2	74.5	Miscellaneous.....	4	87
Penobscot.....	1	80	Modern Mexicans.....	3	82.6
Pottawatomes.....	3	91			
Sauks.....	2	90.7			
Seminoles.....	13	84			
Shawnees.....	4	89.6			
Shoshones.....	4	80.7			
Upsarookas.....	2	94			
Winnebagos.....	2	89			
Yamassec.....	1	70			
Californian.....	1	87			

* * If we take the collective races of America, civilized and savage, we find that the average size of the brain, as measured in the whole series of 341 skulls, is but 80.3 cubic inches.

* The Toltecan Race embraces the semi-civilized communities of Mexico, Bogota and Peru.

The Negro Group embraces 117 skulls and 2 casts, divided as follows : 16 American-born negroes, 88 native Africans, 2 Hovahs of Madagascar, 11 Australians, and 2 Oceanic Negroes. Of the American-born Negroes, the largest measurement is 86; the smallest 73; while the mean is 80.8. The largest of the native African series is 99; the smallest 65; and the mean of 64 measurements is 83.7. For the Hottentot family, 3 skulls give a mean of 75.3 cubic inches; two Hovah skulls of Madagascar average 82.5; and lastly the Alforian family gives for 8 Australian crania 75, and for two skulls of Oceanic Negroes 76.5 cubic inches.

Under the head of Mixed Races have been placed 5 Coptic (3 ancient and 2 modern), 12 Negroid Egyptian, 4 Nubian, 2 Hispano-Peruvian, 3 Negroid Indian, 1 Hispano-Indian, 1 Malayo-Chinese, and 2 Mulatto crania.

"Almost every investigation into the lineage of the Copts results in considering them a mixed progeny of ancient Egyptians, Berabera, Negroes, Arabs, and Europeans; and these characteristics are so variously blended as to make the Copts one of the most motley and paradoxical communities in the world. The Negro traits are visible, in greater or less degree, in a large proportion of this people, and are distinctly seen in the three skulls in my possession."

Eighteen crania of lunatics and idiots, seven illustrative of growth, two phrenologically marked, and eleven of uncertain origin, complete the Collection.

Extensive and unique as is this Collection, it is, nevertheless, still too limited to justify any positive and comprehensive conclusions concerning the great fundamental problems of Ethnology. That it will be capable, when sufficiently extended, of throwing much light upon these obscure and unsettled questions is amply attested by the scientific publications of Dr. Morton. It is earnestly hoped, therefore, that this magnificent nucleus, the result of much pecuniary sacrifice and many years of enthusiastic labor on the part of its late illustrious owner and founder, will not be neglected, but that its efficiency will be increased, and the objects for which it was gathered together attained by contributions from all who may be interested in the advancement of this youngest, most intricate, and most important of the sciences.

The Norwegians and Danes of the Scandinavian race, the Bas-Bretons, the Celtic Scotch, Welsh, Spanish, and Portuguese, the ancient and modern Greeks, the Magyar people, the great Tartar and Scythic hordes, the entire Basque family, and many other races, are without a single representative in the Collection. Of the Polar and Tchudic Families it contains but 4 and 9 skulls respectively; while the ancient Romans and their descendants, the modern Trasteverini beyond the Tiber, the great Sclavic race, and the Berber tribes, are each represented by but one skull.

These deficiencies—and many others could easily be particularized—

are recorded in the hope that the attention of the scientific community being directed to them, they will sooner or later be supplied.

Hall of the Academy, December, 1855.

NOTE.

From my paper on the *Cranial Characteristics of the Races of Men* contributed to the forth-coming work of Messrs. Nott and Gliddon, entitled "Indigenous Races of the Earth," I have selected and embodied in the Catalogue several brief paragraphs descriptive of some of the heads in the Collection. These paragraphs are enclosed in brackets, thus, [].

For the use of the wood-cuts which embellish the succeeding pages, and which were originally executed for *Crania Americana*, *Crania Ægyptiaca*, *Types of Mankind*, and *Indigenous Races of the Earth*, I am indebted to the kindness of Messrs. G. R. Gliddon and R. P. Morton.

February, 1857.

INTRODUCTION.*

I commenced the study of Ethnology in 1830; in which year, having occasion to deliver an introductory lecture on Anatomy, it occurred to me to illustrate the difference in the form of the skull as seen in the five great races of men. After the lapse of but twenty years, the fact seems strange even to myself, that when I sought the materials for my proposed lecture, I found to my surprise that they could be neither bought nor borrowed. Caucasian and Negro crania were readily procured, and two or three Indian skulls were placed at my disposal; but for the Mongolian and Malay I inquired in vain. I resolved, therefore, to supply this remarkable deficiency in an important branch of science; and much time, toil, and expense have been rewarded by the acquisition of 867† human skulls and 601 of the inferior animals. Yet I need hardly add, that had it not been for the exertions of my friends in every quarter of the globe, my object would have remained unaccomplished. The following pages afford emphatic evidence on this point; and it gives me great pleasure thus to record the kindness of those persons who have aided me in an enterprise that, for obvious reasons, has been attended by many difficulties.

The primary motive in making the following Collection, has been to compare the characters of the cranium in the different races of men, and these again with the skulls of the inferior animals; not only in reference to exterior form, but also to internal capacity as indicative of the size of the brain.

Beside these strictly Ethnographic objects, some others of a different and subordinate kind have been had in view; such as pathological conditions of the skull from diseases and from wounds; remarkable developments illustrative of the principles of Phrenology, and preternatural growths of every description.

The Indian crania contained in this series have received my especial attention, both in respect to their number and authenticity, for they have been collected with great care by the gentlemen whose names are associated with them. In every instance where a doubt is entertained as to the tribe or nation to which the skull belonged, it is expressed by a mark of interrogation; and where no clue exists for such information, the deficiency is noted accordingly. I have sometimes had the skulls of both

* Reprinted from the Catalogue of Skulls of Man and the Inferior Animals, in the Collection of Samuel George Morton, M. D., Philada, 1849.

† Since increased to 1035.

Europeans and Africans sent me by mistake for those of Indians; that these should occasionally be mingled in the same cemeteries is readily understood; but a practised eye can separate them without difficulty.

Large as this Collection already is, a glance at the Ethnological Table will show that it is very deficient in some divisions of the human family. For example it contains no skulls of the Eskimaux, Fuegians, Californians or Brazilians. The distorted heads of the Oregon tribes are also but partially represented, while the long-headed people of the Lake of Titicaca, in Bolivia, are altogether wanting. Skulls of the great divisions of the Caucasian and Mongolian races are also too few for satisfactory comparison, and the Slavonic and Tchudic (Finnish) nations, together with the Mongol tribes of Northern Asia and China, are among the especial desiderata* of this Collection.*

The following analysis exhibits an Ethnographic view of the materials embraced in the entire series.†

I. CAUCASIAN GROUP.		5. <i>Anglo-American.</i>	
1. <i>Scandinavian Race.</i>		6. <i>Celtic Race.</i>	
Norwegian.....	1	Irish.....	8
Swedish Peasants.....	7	Celtic (?) heads from Catacombs of	
Finland Swedes.....	2	Paris.....	4
Sudermanland Swedes.....	3	Celt (?) from the field of Waterloo..	1
Ostrogoth.....	1		—
Turannic Swede.....	1		13
Cimbric Swedes.....	3		
Swedish Finns.....	3		
	—		
	21	7. <i>Slavonic Race.</i>	
2. <i>Finnish or Tchudic Race.</i>		Slavonians.....	2
True Finns.....	10		
		8. <i>Pelasgic Race.‡</i>	
3. <i>Suevic Race.</i>		Ancient Phœnician.....	1
Germans.....	11	Ancient Roman.....	1
Dutchman.....	1	Greek.....	1
Prussians.....	4	Circassians.....	4
Burgundian.....	1	Armenians.....	6
	—	Parsees.....	2
	17	Affghan.....	1
4. <i>Anglo-Saxon.</i>		Græco-Egyptians.....	23
English.....	4		—
			39

* Since this paragraph was written, 6 Eskimo, 2 Californian, 7 Brazilian, 1 Slavonic, 13 Finnish, 1 Kalmuck, 2 Laplander, 1 Japanese, and 4 Chinese skulls have been added to the Collection.

† In consequence of the numerous additions to the Collection since 1849, the above analytical table has been necessarily modified from that presented in the third edition of this Catalogue. It is proper to observe that this table is not an attempt at scientific classification, but simply an arrangement adopted for convenience of study and examination.

‡ Dr. Morton used the term *Pelasgic* too comprehensively. The Circassians, Armenians, and Persians should not be placed in this group.

9. *Semitic Race.*

Arabs.....	5
Hebrews.....	8
Abyssinian.....	1

10. *Berber Race (?)*.

Guanché.....	1
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11. *Nilotic Race.*

Ancient Theban Egyptians.....	34
“ Memphite “.....	17
“ Abydos “.....	2
“ Alexandrian “.....	3
Egyptians from Gizeh.....	16
Kens or Ancient Nubians.....	4
Ombite Egyptians.....	3
Maabdeh Egyptians.....	4
Miscellaneous.....	5
Fellahs.....	19

12. *Indostanic Race.*

Ayras (?).....	6
Thuggs.....	2
Bengalees.....	32
Uncertain.....	3

13. *Indo-Chinese Race.*

Burmese.....	2
--------------	---

II. MONGOLIAN GROUP.

1. *Chinese Race.*

Chinese.....	11
Japanese.....	1

2. *Hyperborean Race.*

Burat Mongol.....	1
Kamschatkan.....	1
Kalmuck.....	1
Laplanders.....	4
Hybrid Laplander.....	1
Eskimo.....	6

III. MALAY GROUP.

1. *Malayan Race.*

Malays.....	24
Dyaks.....	2

2. *Polynesian Race.*

Kanakas.....	7
New Zealanders.....	4
Marquesas.....	1

IV. AMERICAN GROUP.

1. *Barbarous Race.*a. *North Americans.*

Arickarees.....	3
Assinaboins.....	3
Chenouks.....	8
Oregonians.....	5
Cherokees.....	6
Chetimaches.....	2
Chippeways.....	2
Cotonays.....	3
Creeks.....	4
Dacotas.....	3
Hurons.....	4
Iroquois.....	3
Illinois.....	2
Klikatat.....	2
Lenapes.....	10
Mandans.....	7
Menominees.....	7
Miamis.....	12
Minetaris.....	4
Mohawks.....	3
Naas.....	2
Narragansetts.....	10
Natchez.....	2
Naticks.....	5
Nisqually.....	1
Osages.....	2
Otoes.....	4
Ottawas.....	4
Ottigamies.....	4
Pawnees.....	2
Penobscots.....	2
Pottawatomies.....	4
Sauks.....	3
Seminoles.....	16
Shawnees.....	4
Shoshones.....	4
Upsarookas.....	2
Winnebagos.....	2
Yamassees.....	3
Californians.....	2
Miscellaneous.....	46

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b. *Central Americans.*

Maya.....	1
Fragments from Yucatan.....	2

3

c. *South Americans.*

Araucanians.....	12
From Mounds.....	2
Charibs.....	3
Patagonians.....	3
Brazilians.....	7

27

2. Toltecán Race.		4. Alforian Race.	
a. Peruvian Family.		Australians	11
Aricans	20	Oceanic Negroes	2
Pachacamac	104		119
Pisco	62	VI. MIXED RACES.	
Santa	8	Copts	5
Lima	7	Negroid Egyptians	12
Callao	3	Nubians	4
Miscellaneous	9	Hispano-Peruvians	2
Elongated skulls from Titicaca,		Negroid-Indians	3
&c.	8	Hispano-Indian	1
	221	Malayo-Chinese	1
b. Mexican Family.		Mulattoes	2
Ancient Mexicans	24		30
Modern Mexicans	9	VII. LUNATICS AND IDIOTS,	
Lipans	2		18
	35	VIII. ILLUSTRATIVE OF GROWTH,	
V. NEGRO GROUP.			7
1. American born,	16	Phrenological Skulls,	2
2. Native Africans,	88	Nation uncertain,	11
3. Hovas,	2	Total,	*1035

The letters F. A. express the *facial angle*, and I. C. refer to the *internal capacity* of the cranium as obtained by the process invented by my friend, Mr. J. S. Phillips, and described in my *Crania Americana*, p. 263, merely substituting leaden shot, one-eighth of an inch in diameter, in place of the white mustard-seed originally used. I thus obtain the *absolute capacity of the cranium*, or *bulk of the brain, in cubic inches*; and the results are annexed in all other instances in which I have had leisure to put this revised mode of measurement in practice. I have restricted it, at least for the purpose of my inferential conclusions, to the crania of persons of sixteen years of age and upwards, at which period the brain is believed to possess the adult size. Under this age, the capacity-measurement has only been resorted to for the purpose of collateral comparison.

All the measurements in this Catalogue, both of the facial angle and internal capacity, have been made with my own hands. I at one time employed a person to aid me in these elaborate and fatiguing details; but having detected some errors in his measurements, I have been at the pains to revise all that part of the series that had not been previously measured by myself. I can now, therefore, vouch for the accuracy of these multitudinous data, which I cannot but regard as a novel and important contribution to Ethnological science.

It is necessary to add, that the measurements originally published in

* There is a discrepancy between this total and the highest number in the Catalogue itself, owing to certain numbers having been cancelled, and not refilled.

the *Crania Americana* were made with seeds, which will explain the discrepancy between the numbers observable in that work and this Catalogue. The measurements of the *Crania Ægyptiaca* having been originally made with shot, require no revision; nor can I avoid expressing my satisfaction at the singular accuracy of this method, since a skull of an hundred cubic inches, if measured any number of times with reasonable care, will not vary a single cubic inch.

I am now engaged in a memoir* which will embrace the detailed conclusions that result from these data; and meanwhile I submit the following tabular view of the prominent facts:—

TABLE III.—Showing the Size of the Brain in cubic inches, as obtained from the internal measurement of 663 *Crania* of various Races and Families of Man.†

RACES AND FAMILIES.		NO. OF SKULLS.	LARGEST I. C.	SMALLEST. I. C.	MEAN.	MEAN.	
MODERN CAUCASIAN GROUP.							
<i>Teutonic Family.</i>							
Swedes.....	}	11	108.25	65	93	} 93.5	
Germans.....		15	114	70	95		
Prussians.....							
English.....		5	105	91	96		
Anglo-Americans.....		7	97	82	90		
<i>Tchadic Family.</i>							
True Finns.....		9	112.5	81.5	94.3		
<i>Celtic Family.</i>							
Native Irish.....		6	97	78	87		
<i>Pelagie Family.</i>							
Persians.....	}	10	94	75	84		
Armenians.....							
Circassians.....							
<i>Semitic Family.</i>							
Arabs.....		3	98	84	89		
<i>Nilotic Family.</i>							
Fellahs.....		18	96	66	79		
<i>Indostanic Family.</i>							
Ayras.....		8	91	79	86	} 81.7	
Bengalees.....		25	90	67	78		
ANCIENT CAUCASIAN GROUP.							
<i>Pelagie Family.</i>							
From the Caucasus.	}	Græco-Egyptians.....	18	97	73	87	
		<i>Nilotic Family.</i>	55	96	68	80	
MONGOLIAN GROUP.							
Chinese Family.....		10	98	70	85	} 87	
Hyperborean Family.....		8	102	78.75	89		
MALAY GROUP.							
Malayan Family.....		20	97	68	86	} 85	
Polynesian Family.....		5	90.5	82	84.3		
AMERICAN GROUP.							
<i>Toltec Family</i>							
Peruvians.....		152	101	58	75.3	} 80.3	
Mexicans.....		25	92	67	81.7		
<i>Barbarous Tribes.</i>							
Iroquois.....	}	164	104	69	84	}	
Lenape.....							
Cherokee.....							
Shoshoné, &c.....							
NEGRO GROUP.							
American-born Negroes.....		12	86	73	80.8	} 82.25	
Native African Family.....		64	99	65	83.7		
Hottentot Family.....		3	83	63	75.3		
<i>Alforian Family</i>							
Australians.....		8	83	63	75		
Oceanic Negroes.....		2	77	76	76.5		

* Dr. Morton died before this memoir was completed. Extracts from it will be found in the foregoing *Explanatory Note*.

† I have enlarged this Table by the addition of 40 measurements, with the effect of increasing the mean cranial capacity of the Teutonic Family, the Mongolian and American Groups, by 1.5, 5, and 1.3 cubic inches respectively; and slightly diminishing that of the Negro Group. In the preceding *Explanatory Note* the reader will find a more detailed account of these measurements, together with others which have been made since Dr. Morton's death.

In this table the measurements of children, idiots and mixed races are omitted, excepting only in the instance of the Fellahs of Egypt, who, however, are a blended stock of two Caucasian nations,—the true Egyptian and the intrusive Arab, in which the characteristics of the former greatly predominate.

No mean has been taken of the Caucasian race* collectively, because of the very great preponderance of Hindu, Egyptian, and Fellah skulls over those of the Germanic, Pelasgic and Celtic families. Nor could any just *collective* comparison be instituted between the Caucasian and Negro groups in such a table, unless the small-brained people of the latter division (Hottentots, Bushmen and Australians) were proportionate in number to the Hindoos, Egyptians and Fellahs of the other group. Such a computation, were it practicable, would probably reduce the Caucasian average to about 87 cubic inches, and the Negro to 78 at most, perhaps even to 75, and thus confirmatively establish the difference of at least nine cubic inches between the mean of the two races.†

Philadelphia, Nov. 1, 1849.

* It is necessary to explain what is here meant by the word *race*. Further researches into Ethnographic affinities will probably demonstrate that what are now termed the *five races* of men, would be more appropriately called *groups*—that each of these groups is again divisible into a greater or smaller number of primary races, each of which has expanded from an aboriginal nucleus or centre. Thus I conceive that there were several centres for the American group of races, of which the highest in the scale are the Toltec nations, the lowest the Fuegians. Nor does this view conflict with the general principle, that all these nations and tribes have had, as I have elsewhere expressed it, a common origin; inasmuch as by this term is only meant an indigenous relation to the country they inhabit, and that collective identity of physical traits, mental and moral endowments, language, &c., which characterize all the American races. The same remarks are applicable to all the other human races; but in the present infant state of Ethnographic science, the designation of these primitive centres is a task of equal delicacy and difficulty. I may here observe, that whenever I have ventured an opinion on this question, it has been in favor of the doctrine of *primeval diversities* among men—an original adaptation of the several races to those varied circumstances of climate and locality, which, while congenial to the one, are destructive to the other; and subsequent investigations have confirmed me in these views. See *Crania Americana*, p. 3; *Crania Aegyptiaca*, p. 37; *Distinctive Characteristics of the Aboriginal Race of America*, p. 36; *Silliman's American Journal of Science and the Arts*, 1847; and my letter to J. R. Bartlett, Esq., in Vol. 2 of the Transactions of the Ethnological Society of New York.

† From the Proceedings of the Academy of Natural Sciences of Philadelphia for September and October, 1849.

CATALOGUE.

I. CAUCASIAN GROUP.

I. SCANDINAVIAN RACE.

(Case 1.)

1. **1260.** Cast of a NORWEGIAN skull. From Prof. Retzius, of Stockholm, A. D. 1845.

[This cast is remarkable for its great size. It belongs to the dolichocephalic variety of Retzius. The fronto-parietal convexity is regular from side to side. The occipital region as a whole is quite prominent; but the basal portion of the occiput is flat and parallel with the horizon when the head rests squarely upon the lower jaw. The glabella, superciliary ridges, and external angular processes of the os frontis are very rough and prominent, overhanging the orbits and inter-orbital space in such a manner as to give a very harsh and forbidding expression to the face. The semi-circular ridges passing back from the external angular process, are quite elevated and sharp. The nasal bones are high and rather sharp at the line of junction; orbits spacious; malar bones of moderate size, and flattened antero-laterally; superior maxilla rather small in comparison with the inferior, which is quite large, and much flared out at the angles. The facial angle is good, and the whole head strongly marked.]

1. **117.** SWEDE.
2. **1247.** SWEDISH peasant: woman, ætat. 30. I. C. 85.
3. **1249.** SWEDISH woman of the 13th century, ætat. 60. I. C. 83.
4. **1258.** Cast of the skull of a SWEDISH child.
5. **1486.** SWEDISH peasant: man, ætat. 30. I. C. 99.
6. **1487.** SWEDISH peasant: woman, ætat. 30. I. C. 65.
7. **1488.** SWEDISH child of four years.

The six preceding skulls are from Prof. Retzius, of Stockholm, A. D. 1845 and 1850.

[The Swedish form of skull, judging from the above specimens, bears a family resemblance to the Norwegian, and in several respects is not unlike the Anglo-Saxon head figured in the first decade of the *Crania Britannica* of Messrs. Davis and Thurnam. In the Anglo-Saxon, however, the chin is more acuminate, and the maxillary rami longer. The chief points of resemblance about the calvaria, are the slightly elevated forehead, the rather flattened vertex, and the inclination of the parietalia downwards and backwards towards the occiput. This latter feature is also possessed by the Norwegian cast referred to above.]

- S. **1545.** SWEDE from Finland. I. C. 107.5. F. A. 86°.
 9. **1546.** SWEDE from Finland. I. C. 93.75. F. A. 83°. Man named Carl Bli, from Borga Parish, in the Province of Nyland. For vagrancy he was imprisoned May 17th, 1831, and in default of bail, sentenced to a half-year's hard labor. He died ætat. 64 years.

Nos. 1545 and 1546, descendants of colonists who settled in Finland in the most remote times.

10. **1547.** SWEDE from Sudermanland. F. A. 83°. I. C. 102.
 11. **1548.** SWEDE from Sudermanland. F. A. 85°. I. C. 94.
 12. **1549.** SWEDE from Sudermanland. F. A. 86°. I. C. 108.25.

Nos. 1545 to 1549, inclusive, were presented by Professor Retzius, of Stockholm, just after the death of Dr. Morton.

13. **1255.** Skull of an ancient OSTROGOTH, from a burial-ground of Ostrogothia, in Sweden. Woman, ætat. 50. I. C. 80.
 14. **121.** TURANNIC SWEDE.
 15. **1532.** Ancient CIMBRIC inhabitant of Sweden. I. C. 80. F. A. 85°.

From Professor Retzius, after Dr. Morton's decease.

16. **1550.** Ancient CIMBRIC SWEDE. F. A. 88°. I. C. 94.
 Probably descended from the oldest Scytho-Turannic inhabitants, (Brachy-cephali?) who always have black hair, and are of small stature. From Professor Retzius with No. 1532.
 17. **1362.** Cast of the skull of an ancient CIMBRIAN, from the Danish Island of Moen. Prof. Retzius.

1. **1542.** SWEDISH FINN, (mixed.) F. A. 81°.5. I. C. 89. Man, named Elias Alhonen, from Lampis Parish, in the Province of Förselshuus. For committing murder he was imprisoned (May 8th, 1840,) in the Fort to hard labor for life. Died in the Lazzaretto, ætat. 62 years.

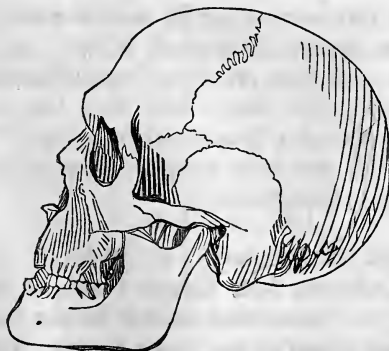
2. **1543.** SWEDISH FINN, (mixed.) F. A. 80°. I. C. 85.
3. **1544.** SWEDISH FINN, (mixed.) F. A. 77°. I. C. 85.25.

[In No. 1249 the singularly protuberant occiput projects far behind the foramen magnum. Nos. 1255, 1550 and 1532 evidently belong to the same peculiar type. These four heads resemble each other as strongly as they differ from the remaining Swedes, Finns, Germans, and Kelts in the collection. They call to mind the kumbekephalæ, or boat-shaped skulls described by Prof. Wilson in his *Pre-historic Annals of Scotland*. No. 1362, presents the same elongated form. It differs from the four preceding skulls in being larger, more massive, and broader in the forehead. Nos. 117, 1258, and 1488 possess the true Swedish form as described above. Nos. 1545 and 1546 are broader, more angular, and less oval than the true Swedish form. The horizontal portion of the occiput is quite flat, and the occipital protuberance prominent. The three Sudermanland Swedes have the same general form, while the three Swedish Finns have a more squarely globular, and less oval cranium than the true Swedes. In No. 121 the posterior region of the calvaria is broader, and does not slope away so much. In general configuration this cranium approaches the brachy-cephalic class of Retzius.]

II. FINNISH RACE.

(Case 1.)

1. **1534.** TRUE FINN. I. C. 94.5. F. A. 87°.
2. **1535.** TRUE FINN. I. C. 97.5. F. A. 84.5°.
3. **1536.** TRUE FINN. I. C. 112.5. F. A. 83°.



FINN (1537).

4. **1537.** TRUE FINN. I. C. 84.25. F. A. 82.5°.

[The Finnish skull has a square or somewhat angularly round appearance. The antero-posterior diameter being comparatively short, it falls within the brachy-cephalic class of Retzius. The forehead is broad, though less expansive than in the true Germanic race. This frontal breadth, the lateral expansion of the parietalia, and the flatness of the os occipitis, give to the coronal region, when viewed perpendicularly, a square, or rather slightly oblong appearance. The face is longer and less broad than in the Mongolian head, while the lower jaw is larger, and the chin more prominent. Hence, the lower part of the face is advanced, somewhat in the manner of the Slavonian face. The whole head is rather massive and rude in structure, the bony prominences being strongly characterized, and the sutures well defined. The general configuration of the head is European, bearing certain resemblances, however, to the Mongolian on the one hand, and the Slavonian on the other.]

5. **1538.** TRUE FINN. I. C. 105. F. A. 83°.
6. **1539.** TRUE FINN. I. C. 81.5. F. A. 85°. A laborer, named Matts Johansson Lans, from the city of Abo. Convicted of desertion and theft while in the Emperor's service, he was sentenced to 8 years imprisonment, and died, æt. 22 years, in the Prisoners' Lazaretto.
7. **1540.** TRUE FINN. I. C. 88.5. F. A. 84°. A man named Jacob Nurkkala, alias Karry, from Storkyro Parish, in the Province of Wasa, who, for committing burglary for the third time, was imprisoned July 6th, 1835, to hard labor in the Fort for life. He died in the Lazaretto, æt. 59 years.
8. **1541.** TRUE FINN. I. C. 99. F. A. 83°.
The preceding 11 skulls were sent to the Academy by Professor Retzius, of Stockholm, just after the demise of Dr. Morton.
9. **1252.** Skull of a FINLAND woman, from the Parish of Kemi, ætat. 40. I. C. 86.
10. **1259.** Cast of the skull of a FINLANDER. Prof. Retzius, 1845.

III. SUEVIC RACE.

(Case 1.)

1. **37.** GERMAN : woman, ætat. 30. I. C. 90. [Round form.]
2. **706.** GERMAN ? man, ætat. 30. F. A. 80°. I. C. 94.
3. **1060.** GERMAN of Tübingen : woman, ætat. 30. I. C. 70.

4. **1063.** GERMAN of Tübingen : man, ætat. 40. I. C. 86. [Square form; occiput flattened; face large and long.]
5. **1064.** GERMAN of Tübingen : woman, ætat. 40. I. C. 91. [Has the Swedish or Northern angular oval, a type distinct from the oval of Southern Europe, with which hasty observers are apt to confound it. It is a well-formed head, and in some respects resembles the Anglo-Saxon skull figured in *Crania Britannica*.]
6. **1188.** GERMAN of Tübingen : man, ætat. 30. I. C. 85. [Resembles the preceding skull in form.]
7. **1189.** GERMAN of Tübingen : man, ætat. 40. I. C. 78. [Bears the Swedo-Finnic type.]
8. **1190.** GERMAN dwarf : female of Tübingen, 20 years of age and three feet in height. I. C. 46.5.
9. **1191.** GERMAN of Frankfort : man, ætat. 70. I. C. 95. [Approximates the square form.]
10. **1062.** GERMAN of Frankfort-on-the-Main : woman, ætat. 40. I. C. 93.
11. **1187.** GERMAN of Frankfort-on-the-Main : man, ætat. 50. I. C. 104.

For the preceding 8 skulls of the Germanic or Teutonic Race, I am indebted to Dr. George Engelmann, now of St. Louis, Missouri.

1. **434.** A DUTCHMAN of noble family, born in Utrecht, and for several years a captain in the army at Batavia, in the Island of Java, where he died under thirty years of age. He was handsome, not deficient in talent, and of an amiable disposition, but devoted to conviviality and dissipation, which finally destroyed him. Dr. Doornik, late of Batavia, from whom I obtained this cranium, gave me the above facts from personal knowledge. F. A. 81°. I. C. 114.

[The calvaria is very large; the face rather small, delicate, well-formed, and tapering towards the chin. The frontal diameter or breadth between the temples, is $4\frac{1}{2}$ inches; the greatest breadth between the parietal protuberances is $6\frac{3}{8}$ inches; the antero-posterior or longitudinal diameter is $7\frac{5}{8}$ inches; the height, measured from the anterior edge of the foramen magnum, in a direct line to the sagittal suture, $5\frac{11}{16}$ inches. A certain angularity or squareness of the frontal and posterior bi-parietal regions, gives to this head the Teutonic form. The posterior or occipital region is flat and broad, and presents to the eye a somewhat pentagonal outline. The temporal regions are full, the mastoid processes large, and the basis cranii nearly round. The outline of the coronal region

resembles a triangle, truncated at the apex. This latter feature is also seen in one of the Finnic skulls (No. 1538).]

1. **1065.** PRUSSIAN of Berlin : man, ætat. 30. I. C. 92.
2. **1066.** PRUSSIAN of Berlin : man, ætat. 40. I. C. 80.
3. **1192.** PRUSSIAN of Berlin : woman, ætat. 25. I. C. 82.
4. **1193.** PRUSSIAN of Berlin : woman, ætat. 20. I. C. 80.

The preceding 4 crania from Dr. Geo. Engelmann.

1. **1533.** Fragments of an ANCIENT BURGUNDIAN skull, from a tomb near Lausanne in Switzerland. Procured by Mr. Troyon, a celebrated Archæologist, who considers this skull to have been 2000 years in the tomb. Presented by Prof. Retzius subsequent to Dr. Morton's death.

IV. ANGLO-SAXON RACE.

(Case 1.)

1. **80.** Skull of an ENGLISHMAN named Samuel Gwilym, a convict in Australia, whose history is thus briefly given by my friend Dr. C. Hufnagle, now of Calcutta:—

“Transported to Van Diemen's land in 1820 for house-breaking ; was orderly on ship-board, but subsequently robbed his master, for which he was sent for two years to Maria Island : while there was flogged for *combination*, and also received 100 lashes for stealing articles from the wreck of the Apollo. Returning to Van Diemen's land he was fined twice for drunkenness ; and was executed there on the 16th of March, 1837, for the murder of Mary Mills, a young woman whom he had previously violated.” I. C. 91.

[This skull belongs to the dolicho-cephalic class, but is not strictly oval, being flattened posteriorly. In general configuration it resembles the Northern or Gothic style of head. The face bears the Finnic stamp.]

2. **539.** Skull of James Moran, an ENGLISHMAN, who was executed at Philadelphia for piracy and murder, May 19, 1837. Ætat. 20. F. A. 79°. I. C. 92.

[This skull is long, flat on the top, and broad between the parietal bones. The posterior portion of the occiput is prominent, the basal surface is flat. In its general outline, the calvaria approaches the kumbe-kephalic form.]

3. **991.** ENGLISH soldier? from Bloody Pond, near Lake George, New York ; the scene of Montcalm's massacre of the English

garrison, A. D. 1757. F. A. 82°. I. C. 105. Jacob Morris, Esq., of Philadelphia.

4. **59.** ANGLO-SAXON head : skull of Pierce,* a convict and cannibal, who was executed in New South Wales, A. D. 18—. F. A. 85°. I. C. 99. [A long and strictly oval head.]

V. ANGLO-AMERICAN RACE.

(Case 1.)

1. **7.** ANGLO-AMERICAN : female, ætat. nearly 100 years. I. C. 83. [Germanic form.]
2. **24.** ANGLO-AMERICAN : female with an open frontal suture. Fille-de-joie, ætat. 26 years. F. A. 77°. I. C. 82. [Intermediate in form between the German and Swedish types.]
3. **88.** ANGLO-AMERICAN : child. Dr. F. Turnpenny.
4. **98.** ANGLO-AMERICAN ? Remarkable for the fulness of the occipital region, and obliquity of the foramen magnum. [Germanic form.]
5. **552.** ANGLO-AMERICAN : man, ætat. 30. I. C. 97. This skull belonged to the collection of the late Dr. Doornik, and was presented to me with other crania, by Dr. Jones, of New Orleans,

* A letter addressed to me by Wm. Cobb Hurry, Esq., of Calcutta, contains the following particulars of this man's singular career :—

"With regard to the cannibal Pierce, all that is known of him is, that he was a native of Scotland, or the north of Ireland, and a seaman. He was a convict in Van Diemen's land, and escaped with others into the woods. Hunger compelled them to prey upon each other, till only Pierce and another were left. A romantic tale might be made from Pierce's own narrative of the feelings with which these two men watched each other, till, overcome with fatigue, the last of the band fell a victim. Pierce was relieved by a party who fell in with him, and the cannibalism of which he was guilty being attributed to necessity, was not punished. From that time his propensities acquired their full development, and he succeeded repeatedly in persuading his fellow prisoners to escape with him, for the sole purpose of killing them and devouring their flesh. He used to return secretly to the depot, and persuade a fresh victim that he had been sent by others who were waiting in the woods. He was at last caught ; and being asked if he knew where one of his companions was, deliberately pulled an arm out of his jacket and showed it to the soldiers. Mr. Crockett, from whom I had this account, and who gave me the skull, is the Colonial Surgeon, and attended Pierce in the hospital both before and subsequently to his crimes. He stated to me his conviction that Pierce was insane, which, however, did not prevent him from being hanged."

through B. F. French, Esq. [In form it resembles the Norwegian skull.]

6. **899.** ANGLO-AMERICAN : man, ætat. 40. I. C. 91.
7. **1108.** ANGLO-AMERICAN : man. I. C. 95. Dr. C. H. Cameron. [Northern or Gothic form.]
8. **724.** Conical skull of a white woman, ætat. 40, of whose history nothing is known. 1839. I. C. 81.

VI. CELTIC RACE.

(Case 1.)

1. **18.** CELTIC IRISH : from the Abbey of Buttevant, county of Cork, Ireland. Woman, ætat. 40. F. A. 80°. I. C. 78. See No. 52. [Form intermediate between the Cimbric and Swedish types.]
 2. **21.** CELT : supposed to be a British soldier, killed at the battle of Chippeway. Ætat. 40. I. C. 93. This skull is remarkable for the great size of the superciliary ridges ; that of the right side having a corresponding frontal sinus, that on the left being represented by solid bone upwards of half an inch in horizontal thickness. Dr. Mickle, 1831. [In this head the Gothic calvarial form is associated with a heavy, massive face.]
 3. **42.** CELTIC Irishman, aged 21, imprisoned for larceny, and in all respects a vicious and refractory character. Died A. D. 1831. I. C. 97. [Approaches the square Germanic form.]
 4. **52.** CELTIC IRISH from the Abbey of Buttevant, County of Cork, Ireland. Woman, ætat. 50. F. A. 80°. I. C. 82. Dr. Smith (Hist. of the County of Cork) says that these are the bones of the Irish slain at the battle of Knockinoss, A. D. 15—. [The same form as the preceding.]
 5. **985.** CELTIC IRISH : man, ætat. 60. F. A. 77°. I. C. 93. [This head being rather broad between the parietal tubers, approximates the Gothic type. The face resembles that of some of the Finns, but is smaller and less massive.]
 6. **986.** ANGLO-IRISH : girl, ætat. 12.
 7. **1186.** IRISH cranium from Mayo county. [Belongs to the peculiar boat-shaped Cimbric type.]
 8. **1356.** Cast of the skull of one of the ancient CELTIC race of Ireland. Prof. Retzius.
- [This head, the largest in the group, is very long, clumsy and massive in its general appearance. The forehead is low, broad, and ponderous ; the occiput heavy and very protuberant ; the basis cranii long,

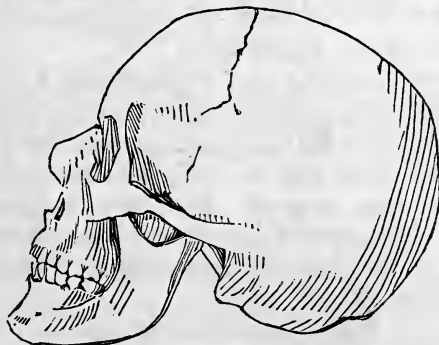
broad, and flat; the orbits capacious; and the distance from the root of the nose to the upper alveolus quite short. In its general form, it very much resembles the Cimbric skull, No. 1362. The Cimbric type, however, is somewhat narrower in the frontal region, and widens more posteriorly towards the parietal protuberances.]

9. **661.** CELTIC (?) skull, }
10. **662.** CELTIC (?) skull, } Obtained from the Catacombs at Paris by
11. **663.** CELTIC (?) skull, } the late Dr. Harlan. Presented by Mr.
12. **664.** CELTIC (?) skull, } Harlan.
13. **1564.** CELTIC (?) skull from the field of Waterloo. Presented by Mr. Harlan. [The very heavy skull from the field of Waterloo (No. 1564) is strictly and beautifully oval. Of the four heads from the Catacombs at Paris, three are decidedly brachy-cephalic, and one of the Germanic form.]

VII. SCLAVONIC RACE.

(Case 1.)

1. **1251.** SCLAVONIAN, from Olmutz, in Moravia: woman, ætat. 30.



SCLAVONIAN (1251).

[This skull presents the following characters:—General form of the head globular, though wanting in symmetry, in consequence of the posterior portion of the right parietal bone being more fully developed than the corresponding portion of the left; the calvaria quite large in proportion to the face, and broadest posteriorly between the parietal protuberances; the forehead is high, and moderately broad; the vertex presents a somewhat flattened appearance, in consequence of sloping downwards and backwards towards the occiput; the occipital region is also flat, and the breadth between

the mastoid processes very great. The face is small and delicate, the nasal bones prominent, the orbits of moderate size, the malar bones flat and delicately rounded, and the zygomatic processes small and slender. The lower jaw is rather small, rounded at the angles, and quite acuminate at the symphysis. If classified according to its form, this head would find its place near to, if not between, the Kalmuck and Turkish types.]

2. **1253.** Cast of a SCLAVONIAN head from Morlack, in Dalmatia. Nos. 1251 and 1253 from Prof. Retzius.

VIII. PELASGIC RACE.

(Case 2.)

1. **1352.** Ancient PHENICIAN?

I received this highly interesting relic from M. F. Fresnel, the distinguished French archæologist and traveller, with the following memorandum, A. D. 1847 :—

“Crâne provenant des caves sépulchrales de Ben-Djemma, dans l’île de Malte. Ce crâne paraît avoir appartenu à un individu de la race qui, dans les temps les plus anciens, occupait la côte septentrionale de l’Afrique, et les îles adjacentes.”



PHENICIAN (1352).

[This cranium is the one alluded to in the interesting anecdote narrated by the late Dr. Patterson, in his graceful memoir, as illustrating the wonderful power of discrimination, the *tactus visus*, acquired by Dr. Morton in his long and critical study of craniology.* From this circumstance, and from the many singular and interesting associations inseparably connected with its antiquity, the introduction of the above figure cannot fail to be received with a

* See Types of Mankind, p. xl.

lively sense of interest by those engaged in these studies. It is in many respects a peculiar skull. In a profile view, the eye quickly notices the remarkable length of the occipito-mental diameter. This feature gives to the whole head an elongated appearance, which is much heightened by the general narrowness of the calvaria, the backward slope of the occipital region, and the strong prognathous tendency of the maxillæ. The contour of the coronal region is a long oval, which recalls to mind the kumbe-kephalic form of Wilson. The moderately well-developed forehead is notable for its regularity. In its form and general characters the face is *sui generis*. It may not inaptly be compared to a double wedge, for the facial bones are not only inclined downwards and remarkably forward, thus tapering towards the chin, but also in consequence of the flatness of the malar bones and the inferior maxillary rami they appear laterally compressed, sloping gently, on both sides, from behind forwards, towards the median line. The lower jaw is large, and much thrown forwards. The slope of the superior maxilla forms an angle with the horizon of about 45° . Notwithstanding this inclination of the maxilla, the incisor teeth are so curved as to be nearly vertical. Hence the prognathism of the jaws is quite peculiar, differing, as it does, from that of the Eskimo and true African skulls presently to be noticed.]

1. **1049.** Fragments of an ancient ROMAN? head, from a tomb on the road between Cumæ and the ruins of Baiæ, near the latter place, A. D. 1841. Dr. M. Burrough.

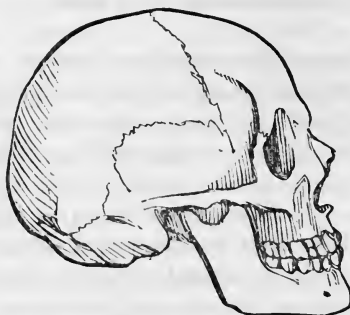
1. **1354.** Cast of the skull of a young GREEK. Prof. Retzius.

[The calvarial region is well developed; the frontal expansive and prominent; the facial line departs but slightly from the perpendicular, and the facial angle consequently approaches a right angle. A small and regularly-formed face, devoid of asperities, harmonizes well with the general intellectual character of the head proper. The malar bones are small, flat, and smooth, with just enough lateral prominence to give to the face an oval outline; the alveolar margins of the maxillæ are regularly arched, and the teeth perpendicular.]

Circassians.

1. **762.** SARASKA, or pure Circassian : man, ætat. 30. F. A. 75° . I. C. 94.
2. **763.** CIRCASSIAN woman, ætat. 50. F. A. 81° . I. C. 81.

3. **764.** CIRCASSIAN man, ætat. 40. F. A. 78°. I. C. 90.



CIRCASSIAN (764).

[The calvaria of No. 764 is well developed and regularly arched, and in size considerably exceeds the face. The proportions between the vertical, transverse, and longitudinal diameters are such as to convey to the eye an impression of harmony and regularity of structure. The high and broad forehead forms with the parietal region a continuous and symmetrical convexity. The occiput is full and prominent. The face is strongly marked; the orbits moderate in size; the nasal bones prominent; the malar bones small and rounded; the teeth vertical; the maxillæ of medium size, and the chin prominent. The fulness of the face, its oval contour, and general want of angularity, decidedly separate this head from the Mongolian type, as represented by the Kalmuck skull, No. 1553.]

4. **765.** CIRCASSIAN : woman, ætat. 18. F. A. 80°. I. C. 79.

Armenians.

1. **789.** ARMENIAN : girl, ætat. 16. I. C. 86.
2. **790.** ARMENIAN child of twelve years.
3. **791.** ARMENIAN : man, ætat. 80. I. C. 83.
4. **792.** ARMENIAN girl of fourteen years ?
5. **793.** ARMENIAN : man, ætat. 75. I. C. 80.
6. **794.** ARMENIAN : man, ætat. 60. I. C. 80.

Persians.

1. **731.** PARSEE, or Persian fire-worshipper, from the "Tower of Silence," Bombay, India : woman, ætat. 40. I. C. 75.
2. **743.** PARSEE, or Persian fire-worshipper, from the "Tower of Silence," near Bombay : woman, ætat. 50. I. C. 89.

The 12 preceding skulls from G. R. Gliddon, Esq.

3. **1333.** AFGGHAN boy, about 16 years of age, killed at Jugdalluk during the memorable massacre of the 44th English regiment, A. D. 1845.

[A general family resemblance pervades all these crania. They are all, with one exception, remarkable for the smallness of the face, and shortness of the head. In the Armenian skull, the forehead is narrow but well formed, the convexity expanding upwards and backwards towards the parietal protuberances, and laterally towards the temporal bones. The greatest transverse diameter is between the parietal bosses. This feature, combined with the flatness of the occiput, gives to the coronal region an outline somewhat resembling a triangle with all three angles truncated, and the base of the triangle looking posteriorly. In fact, the whole form of the calvaria is such as to impress the mind of the observer with a sense of squareness and angularity. The dimensions of the orbits are moderate; the malar bones small, flat, and retreating; the zygomatic processes slender, and the general expression of the face resembling that of the Circassians, from which latter it differs in being shorter. The Persian head is less angular, the frontal region broader, the occiput fuller, and the malar bones larger. The lower jaw is small and rather round. The Afghan skull resembles, in several respects, the Hindoo type.]

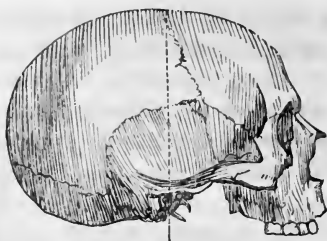
Græco-Egyptians.

Nos. 798 to 804 are ancient Egyptians from the necropolis of Memphis, north-west of the Pyramid of Five-Steps, viz :—

1. **798.** PELASGIC or Græco-Egyptian form. F. A. 80°. I. C. 84. Crania Ægyptiaca, plate 3, fig. 6.

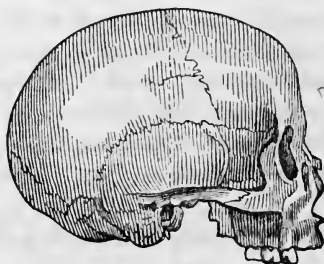
Under this name I embrace all those crania that conform to the highest Caucasian type. The *Egyptian* or *Nilotic* form includes the pure Egyptian race. The *Negroid* form expresses that mixture of the Egyptian and Negro in which the latter predominates. See *Crania Ægyptiaca, passim*.

2. **799.** PELASGIC form : man, ætat. 35. F. A. 82°. I. C. 87. Crania Ægyptiaca, plate 3, fig. 4.
 3. **801.** PELASGIC form : woman, ætat. 25.
 4. **804.** PELASGIC form : girl, ætat. 12. Crania Ægyptiaca, plate 3, fig. 3.
 5. **808.** PELASGIC form. F. A. 77°. I. C. 97. Crania Ægyptiaca, plate 2, fig. 1.



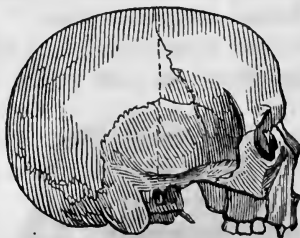
PELASGIC (808).

6. **812.** PELASGIC form : woman, ætat. 20. F. A. 80°. I. C. 82. *Crania Ægyptiaca*, plate 2, fig. 3.



PELASGIC (812).

7. **814.** PELASGIC form : man, ætat. 90. I. C. 97. *Crania Ægyptiaca*, plate 2, fig. 5.
 8. **815.** PELASGIC form. F. A. 81°. I. C. 88. *Crania Ægyptiaca*, plate 2, fig. 2.



PELASGIC (815).

9. **817.** PELASGIC form. F. A. 80°. I. C. 89. *Crania Ægyptiaca*, plate 5, fig. 3.
 10. **821.** PELASGIC form. F. A. 79°. I. C. 74. *Crania Ægyptiaca*, plate 12, fig. 6.
 11. **824.** Infantile mummy.
 12. **825.** PELASGIC form. Memphite necropolis. F. A. 81°. I. C. 93. *Crania Ægyptiaca*, plate 3, fig. 9.
 13. **856.** PELASGIC form. I. C. 87. *Crania Ægyptiaca*, plate 9.

The two following crania were found by Mr. Perring, Civil Engineer, in the gallery leading to the newly discovered chamber in the *Pyramid of Five Steps*, at Saccara. These are, perhaps, the most ancient human remains extant. Mr. Perring is of opinion that they date with the *erection* of the Pyramid, and are therefore in all probability upwards of 4000 years old. See Vyse, *Pyramids of Gizeh*, vol. iii. p. 44.

14. **837.** PELASGIC form : man, ætat. 50. F. A. 83°. I. C. 97. Crania Ægyptiaca, plate 1, fig. 2.
15. **838.** PELASGIC form : man, ætat. 40. F. A. 81°. I. C. 90. Crania Ægyptiaca, plate 1, fig. 1.
16. **840.** PELASGIC form : man. F. A. 79°. I. C. 89. Skull obtained from a tumulus recently opened at the ancient quarries of Toora, (on the left bank of the Nile, seven miles above Cairo,) whence was taken the stone used in building the Pyramids of Gizeh, and other and much later structures in Egypt. The bodies were covered with coarse matting, and enclosed in sarcophagi, and are doubtless the remains of quarrymen. Crania Ægyptiaca, plate 2, fig. 9.
17. **850.** PELASGIC form : man, ætat. 70. I. C. 86. Crania Ægyptiaca, plate 6, fig. 4.
18. **859.** PELASGIC form : woman, ætat. 80. Hair long and fine. I. C. 82. Crania Ægyptiaca, plate 6, fig. 5.
19. **868.** PELASGIC form : child.
20. **873.** PELASGIC ? form : man of 80. I. C. 88.
21. **875.** PELASGIC form : woman, ætat. 70, with long, fine hair. I. C. 73. Crania Ægyptiaca, plate 10, fig. 9.
22. **884.** PELASGIC form : woman, ætat. 30, with a profusion of long, silky hair. Crania Ægyptiaca, plate 10, fig. 8.



PELASGIC (884).

23. **893.** PELASGIC form : man of 60. Thebes. F. A. 81°. I. C. 85. Crania Ægyptiaca, plate 6, fig. 3.
- Nos. 798 to 893 from G. R. Gliddon, Esq.

IX. SEMITIC RACE.

(Case 2.)

Arabs.

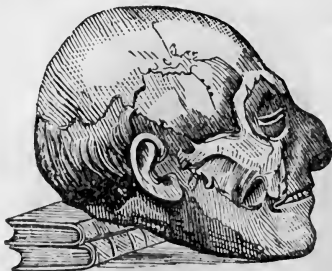
1. **780.** BARAMKA, or Barmecide Arab of Gemardash : man, ætat. 80. F. A. 76°. I. C. 86.
 2. **781.** BARAMKA : man, ætat. 40. F. A. 88°. I. C. 84.
 3. **784.** BEDOUIN of the Eastern Desert : man, ætat. 60. I. C. 98.
 4. **1296.** Cranium of an embalmed body taken by Mr. Fresnel, A. D. 1839, from one of the *hypogæa* called *Maghair-Shudyb*, or *Grottoes of Jethro*, in Midian, east of the Gulf of Akaba, in Arabia Petræa. M. Fresnel, through Mr. Gliddon.
- Nos. 780 to 1296 from G. R. Gliddon, Esq.

[These four heads are characterised by a low, recedent forehead, a broad and flattened occipital region, and a comparatively short occipito-frontal diameter. They fall within the brachy-cephalic class, and have therefore been separated from the group of longer and more oval Fellah skulls. (See pages 43-4).]

5. **671.** Os Frontis of a MIDIANITE.

Hebrews (?)

1. **1299.** Cast in plaster of a bas-relief SEMITIC head brought by M. Botta from the ruins of Khorsabad. G. R. Gliddon, Esq. 1846.
2. **807.** SEMITIC? form : man, ætat. 30. F. A. 74°. I. C. 88. Crania Ægyptiaca, plate 2, fig. 8.
3. **818.** SEMITIC form. F. A. 77°. I. C. 69. Crania Ægyptiaca, plate 5, fig. 4.
4. **842.** SEMITIC form. Thebes : man, ætat. 40, with smooth, brown hair. I. C. 85. Crania Ægyptiaca, plate 11, fig. 2.



SEMITIC (842).

5. **845.** SEMITIC? form : man, with fine hair. I. C. 92. Thebes Crania Ægyptiaca, plate 12, figs. 1, 2.

6. **865.** SEMITIC form : man, ætat. 40. *Crania Ægyptiaca*, plate 6, fig. 2.
7. **870.** SEMITIC form : man, ætat. 30, with fine hair cut close. I. C. 79. *Crania Ægyptiaca*, plate 6, fig. 8.
8. **879.** SEMITIC form : man, ætat. 50. *Crania Ægyptiaca*, plate 8, fig. 2,
Nos. 807 to 879 from G. R. Gliddon, Esq.

1. **1361.** Cast of the skull of an ABYSSINIAN woman. Prof. Retzius.

X. BERBER RACE.

(Case 2.)

1. **23.** GUANCHÉ, from a cave in the island of Palma, one of the Canaries : man, ætat. 40. F. A. 77°. I. C. 85. Dr. J. C. Warren.

XI. NILOTIC RACE.

(Case 2.)

Ancient Theban Egyptians.

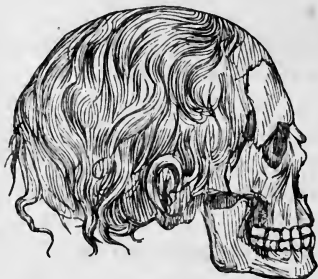
1. **48.** Embalmed head of an EGYPTIAN girl eight years of age, from the Theban catacombs. Egyptian form, with a single lock of long fine hair. Dissected by me before the Academy of Natural Sciences of Philadelphia, December 10, 1833.
2. **60.** Embalmed head of an EGYPTIAN lady about 16 years of age, brought from the Catacombs of El Gourn, near Thebes, by the late Antonio Lebolo, of whose heirs I purchased it, together with the entire body : the latter I dissected before the Academy of Natural Sciences, on the 10th and 17th of December, 1833, in presence of eighty members and others. Egyptian form, with long, fine hair. *Crania Ægyptiaca*, plate 10, fig. 6.



EGYPTIAN (843).

3. **843.** EGYPTIAN form : woman, ætat. 30, with long, fine hair. I. C. 74. Thebes. *Crania Ægyptiaca*, plate 10, fig. 4.

4. **844.** EGYPTIAN form : woman, ætat. 30, with long, fine hair. I. C. 68. Thebes. Crania Ægyptiaca, plate 10, fig. 1.



EGYPTIAN (844.)

5. **846.** EGYPTIAN form : youth of 18. Hair dark and fine. I. C. 87. Thebes. Crania Ægyptiaca, plate 11, fig. 1.



EGYPTIAN (846.)

The following crania, Nos. 847 to 861, inclusive, (nine in number,) are from the Catacombs of El Gourn, near Thebes. This valuable series was obligingly presented to me by M. Clot Bey, Chief of the Medical Staff of the Viceroy of Egypt.

6. **847.** EGYPTIAN form : woman, ætat. 30. F. A. 76°. I. C. 68. Crania Ægyptiaca, plate 7, fig. 5.
 7. **848.** EGYPTIAN form : woman of 40. F. A. 80°. I. C. 82. Crania Ægyptiaca, plate 7, fig. 4.
 8. **849.** EGYPTIAN form : man, ætat. 25. I. C. 81.
 9. **851.** EGYPTIAN form : woman, ætat. 35. F. A. 80°. I. C. 79. Crania Ægyptiaca, plate 7, fig. 1.
 10. **853.** EGYPTIAN form : man, ætat. 50. I. C. 95. Crania Ægyptiaca, page 17.
 11. **854.** EGYPTIAN form : girl of 16. Crania Ægyptiaca, plate 7, fig. 6.
 12. **855.** EGYPTIAN form : girl of 18, with very fine, long hair. Crania Ægyptiaca, plate 8, fig. 9.
 13. **860.** EGYPTIAN form : man, ætat. 50. F. A. 82°. I. C. 80. Crania Ægyptiaca, plate 6, fig. 1.

14. **861.** EGYPTIAN form: man, ætat. 50. F. A. 78°. I. C. 96. Crania Ægyptiaca, plate 7, fig. 2.

(Cases 2-3.)

The following fifteen heads, 862 to 889, inclusive, were obtained by Mr. Gliddon from the Theban Catacombs.

15. **862.** EGYPTIAN form: man, ætat. 60, with long, fine hair. I. C. 79. Crania Ægyptiaca, plate 10, fig. 3.
 16. **866.** EGYPTIAN form: woman, ætat. 20, with long, fine hair. Crania Ægyptiaca, plate 8, fig. 5.
 17. **867.** EGYPTIAN form: man of 50, with fine, dark hair. F. A. 78°. I. C. 86. Crania Ægyptiaca, plate 8, fig. 8.
 18. **871.** EGYPTIAN form: woman, ætat. 20. Crania Ægyptiaca, plate 8, fig. 4.
 19. **872.** EGYPTIAN form: woman, ætat. 50, with long, fine hair. Crania Ægyptiaca, plate 10, fig. 2.
 20. **876.** EGYPTIAN form: man, with fine hair. I. C. 83. Crania Ægyptiaca, plate 6, fig. 9.



EGYPTIAN (877).

21. **877.** EGYPTIAN form: man, ætat. 40, with fine hair and a short beard. I. C. 89. Crania Ægyptiaca, plate 10, fig. 5.



EGYPTIAN (878).

22. **878.** EGYPTIAN form: man, ætat. 50, with long smooth hair. I. C. 77. Crania Ægyptiaca, plate 8, fig. 1.

23. **880.** EGYPTIAN form : woman? of 40, with short, fine hair. F. A. 80°. I. C. 85. *Crania Ægyptiaca*, plate 8, fig. 7.
24. **881.** EGYPTIAN form : girl of 17. Resembles the Hindu type. F. A. 80°. I. C. 71. *Crania Ægyptiaca*, plate 6, fig. 6.
25. **882.** EGYPTIAN form : juvenile female head, with long, fine hair. *Crania Ægyptiaca*, plate 10, fig. 7.
26. **883.** EGYPTIAN form : man, ætat. 40. F. A. 81°. I. C. 82. *Crania Ægyptiaca*, plate 8, fig. 6.
27. **886.** EGYPTIAN form : man, ætat. 50. I. C. 76.
28. **887.** EGYPTIAN form : child of 12 years, with long, fine hair.
29. **889.** EGYPTIAN form : man, ætat. 50. I. C. 83. *Crania Ægyptiaca*, plate 6, fig. 7.
30. **894.** EGYPTIAN form : child of 9 years. Thebes.
31. **1044.** Embalmed head of a THEBAN lady of 30 years. Mr. Gliddon. This head, with its long oval cranium, receding forehead, gently aquiline nose, retracted chin, and long, fine hair, may serve as a type of the pure Egyptian stock ; a people indigenous to the valley of the Nile ; Caucasian in physical lineaments and philological relations, and constituting one of the several primordial centres of that widely-extended race. See *Crania Ægyptiaca*, pages 17, 37 ; and *Transactions of the Ethnological Society of New York*, vol. ii. p. 219.



Embalmed female head from the Catacombs of Thebes.
No. 1044.

32. **1290.** Ancient EGYPTIAN, from a tomb at Thebes. Egyptian form. I. C. 82.

33. **1293.** Embalmed head from Thebes. Egyptian form: woman, ætat. 40, with long, fine hair.

34. **1295.** Embalmed head of an infant at birth. From Thebes.

Nos. 1290 to 1295, inclusive, were presented by A. C. Harris, Esq., of Alexandria, in Egypt, A. D. 1846.

Ancient Memphite Egyptians.

(Case 3.)

1. **796.** EGYPTIAN form. F. A. 75°. I. C. 80. *Crania Ægyptiaca*, page 7.

2. **797.** EGYPTIAN form: woman, ætat. 70. I. C. 76. *Crania Ægyptiaca*, page 7.

Nos. 796 and 797 were exhumed from the front of the First or Northern Brick Pyramid of Dashour, Memphite necropolis, by Mr. Perring, Civil Engineer. See Vyse's *Pyramids of Gizeh*, vol. iii. page 60.

(For No. 795 see *Copts*.)

Nos. 805 to 816, ancient mummied Egyptians from various parts of the Necropolis of Memphis. From G. R. Gliddon, Esq.

3. **805.** EGYPTIAN form: man, ætat. 50. F. A. 83°. I. C. 79. *Crania Ægyptiaca*, plate 2, fig. 7.

4. **806.** EGYPTIAN form. F. A. 77°. I. C. 83. *Crania Ægyptiaca*, plate 2, fig. 4.

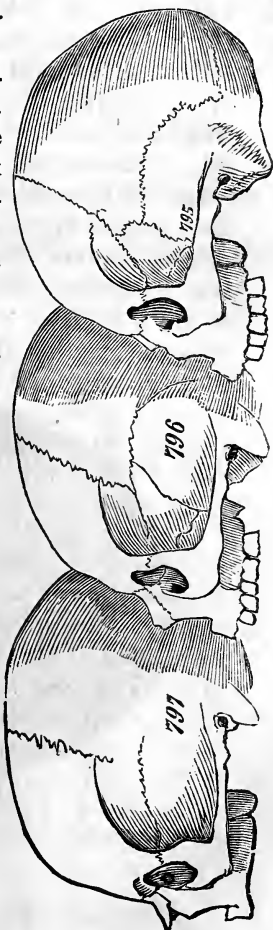
5. **809.** EGYPTIAN form: woman. F. A. 78°. I. C. 81. *Crania Ægyptiaca*, plate 3, fig. 2.

6. **810.** EGYPTIAN form: woman, ætat. 20. F. A. 78°. I. C. 86. *Crania Ægyptiaca*, plate 2, fig. 6.

7. **811.** EGYPTIAN form: woman, ætat. 25. F. A. 76°. I. C. 73. *Crania Ægyptiaca*, plate 3, fig. 1.

8. **813.** EGYPTIAN form: child, ætat. 8.

9. **816.** EGYPTIAN form. F. A. 78°. I. C. 92. *Crania Ægyptiaca*, plate 3, fig. 5.



10. **1223.** MEMPHITE head : Egyptian form. F. A. 82°. Found with No. 1194, &c. (See next page.)
 11. **1235.** Ancient EGYPTIAN : Egyptian form, with fine, silk-like hair. Memphite necropolis. I. C. 82. Dr. Charles Pickering.
 12. **1291.** Embalmed head from Memphis. Egyptian form : girl of 14. Presented by A. C. Harris, Esq., of Alexandria, in Egypt. 1846.
 13. **1519.** EGYPTIAN, from the Necropolis of Memphis.
 14. **1520.** EGYPTIAN, from the Necropolis of Memphis.
 15. **1521.** EGYPTIAN. Memphis.
 16. **1522.** EGYPTIAN. Memphis.
 17. **1524.** EGYPTIAN. Memphite Necropolis. Woman, ætat. 60. I. C. 87. F. A. 79°. This is the head of the mummy opened by Mr. Gliddon in Philadelphia, January, 1851, and by him presented to me.
 18. **819.** EGYPTIAN form : man. F. A. 79°. I. C. 85. *Crania Ægyptiaca*, plate 5, fig. 1.
 19. **820.** EGYPTIAN form : man, ætat. 40. F. A. 76°. I. C. 96. *Crania Ægyptiaca*, plate 5, fig. 2.
- Nos. 819 and 820 are from Arabat-el-Matfoon, the ancient Abydos. "Found with Nos. 817 and 818 in a pit containing scarabæi and ornaments bearing the name of Ramses III., (Sesostris,) and the prenomen of Thotmes IV., (Mœris,) whence it is conjectured that they may have belonged to a period between 1822 and 1474 years before Christ.—Vide Rosellini's Chronology." G. R. G.

Alexandrian Egyptians.

(Case 3.)

1. **1266.** Embalmed head of the pure Egyptian form. I. C. 77.
 2. **1267.** Embalmed head of the Egyptian form.
 3. **1268.** Ancient EGYPTIAN. Egyptian form : man, ætat. 60. I. C. 78.
- The preceding three heads were found in a rock-tomb, with Greek legends, about four miles west of the city of Alexandria. This tomb was accidentally discovered in blasting rocks for a fortification, A. D. 1845, and probably belonged to the Ptolemaic era. The skulls were procured by Mr. Wm. A. Gliddon, and by him presented to me, A. D. 1848.

Egyptians from Gizeh.

(Case 3.)

The following sixteen ancient Egyptian crania were obtained from the tombs opened by Prof. Lepsius at the base of the great Pyramid of

Gizeh, and presented to me by Mr. Wm. A. Gliddon, A. D. 1846. See Proceedings of the Academy of Natural Sciences of Philadelphia, November, 1845.

1. **1194.** EGYPTIAN form: woman, ætat. 16. F. A. 85°. I. C. 83.
2. **1195.** EGYPTIAN form: man, ætat. 50. F. A. 78°. I. C. 88.
3. **1196.** EGYPTIAN form, ætat. 30. F. A. 82°. I. C. 80.
4. **1197.** EGYPTIAN form, ætat. 25. F. A. 78°. I. C. 77.
5. **1198.** EGYPTIAN form, ætat. 45. F. A. 82°. I. C. 93.
6. **1199.** EGYPTIAN form: child of ten years. F. A. 91°.
7. **1200.** EGYPTIAN form: man, ætat. 30. F. A. 82°. I. C. 77.
8. **1201.** EGYPTIAN form: child of 6 years.
9. **1202.** EGYPTIAN form: woman, ætat. 40. F. A. 80°. I. C. 80.
10. **1203.** EGYPTIAN form, ætat. 60. F. A. 80°. I. C. 79.
11. **1204.** EGYPTIAN form, ætat. 50. F. A. 79°. I. C. 83.
12. **1205.** EGYPTIAN form, ætat. 60. I. C. 91.
13. **1206.** EGYPTIAN form: woman, ætat. 25. F. A. 83°.
14. **1207.** EGYPTIAN form: woman, ætat. 20. F. A. 86°. I. C. 76.
15. **1208.** EGYPTIAN form: woman, ætat. 30. I. C. 86.
16. **1209.** EGYPTIAN form: man, ætat. 60. F. A. 79°. I. C. 83.

Kens or Ancient Nubians.

(Case 3.)

Nos. 826 to 829, "Kens, or ancient Nubians? from the pits at Debôd, the ancient Parembolè, 30 miles south of Philæ. Some writers maintain that there are no mummies in Nubia. Here is proof to the contrary." G. R. G.

1. **826.** EGYPTIAN form. F. A. 77°. I. C. 74. *Crania Ægyptiaca*, plate 13.
2. **827.** EGYPTIAN form: man, ætat. 40. I. C. 82. *Crania Ægyptiaca*, plate 12, fig. 9.
3. **828.** EGYPTIAN form: juvenile head. F. A. 90°.
4. **829.** EGYPTIAN form. F. A. 85°. I. C. 70. *Crania Ægyptiaca*, plate 12, fig. 8.

Ombite Egyptians.

Nos. 830 to 832, "Ancient Egyptians from the pits at Koum Ombos: probably inhabitants of the Ombite nome." G. R. G.

1. **830.** EGYPTIAN form: woman, ætat. 30. I. C. 77. *Crania Ægyptiaca*, plate 12, fig. 3.
2. **831.** EGYPTIAN form: woman, ætat. 30. I. C. 68. *Crania Ægyptiaca*, plate 12, fig. 4.

3. **832.** EGYPTIAN form : woman, ætat. 30. F. A. 81°. I. C. 68.
Crania *Ægyptiaca*, plate 12, fig. 5.

Maabdeh Egyptians.

Nos. 833 to 836 : "Ancient Egyptians from the Crocodile mummy-pits called *Margaret-es-Samoun*, behind the village of Maabdeh, and opposite to Manfaloot. I brought these from a measured distance of 438 feet under ground horizontally, averaging twenty feet below the surface." G. R. G.

1. **833.** EGYPTIAN form : man, ætat. 35 ; long hair and a little beard. Crania *Ægyptiaca*, plate 4, fig. 1.
2. **834.** NEGROID form : woman, ætat. 30 ; hair long and harsh. Crania *Ægyptiaca*, plate 4, fig. 2.
3. **836.** EGYPTIAN form : woman of 30 years, with long, curling hair. Crania *Ægyptiaca*, plate 4, fig. 4.
4. **1292.** Embalmed EGYPTIAN from Maabdeh. Egyptian form : woman, ætat. 40, with long, fine hair. From A. C. Harris, Esq. 1846.

Miscellaneous.

1. **822.** EGYPTIAN form : child of 12 years. Exhumed by Mr. Gliddon from tumuli at the island of Beggeh, the ancient Senem, a sacred spot close to Philæ in Nubia. Found with Nos. 821, 823 and 824. "These may have been pilgrims to the Temple, and, as such, of any nation or of any speech." G. R. G.
2. **802.** EGYPTIAN or NILOTIC form : woman, ætat. 50. I. C. 81. Crania *Ægyptiaca*, plate 3, fig. 7. G. R. G.
3. **803.** EGYPTIAN form : man, ætat. 50. F. A. 82°. I. C. 92. Crania *Ægyptiaca*, plate 3, fig. 8. G. R. G.
4. **1240.** Mummied head from Egypt. EGYPTIAN ? form, with long, fine hair. Dr. C. Pickering. 1845.
5. **1317.** Head of an ancient EGYPTIAN. Egyptian form : woman, ætat. 50, from a tomb at the base of the Great Pyramid. Dr. Charles Hufnagle. 1848.

Fellahs.

(Case 3.)

1. **499.** FELLAH, or ARAB-EGYPTIAN of Old Cairo : man, ætat. 60. F. A. 80°. I. C. 94.
The *Fellahs*, or Arab-Egyptian peasants, are the lineal descendants of the rural population of ancient Egypt.

2. **782.** FELLAH of Old Cairo : woman, ætat. 40. F. A. 82°. I. C. 66.
3. **783.** FELLAH of Old Cairo : woman, ætat. 70.
4. **785.** FELLAH : woman, ætat. 20. F. A. 79°. I. C. 73.
5. **788.** FELLAH of Old Cairo : woman, ætat. 30. F. A. 74°. I. C. 74.
6. **999.** FELLAH of Egypt : girl of 16. F. A. 78°. I. C. 72.
7. **766.** FELLAH or ARAB-EGYPTIAN of the Owlad-el-belled, or better class, from Bab-el-Nasr, in Lower Egypt : woman, ætat. 70. I. C. 77.
8. **767.** FELLAH : man, ætat. 70. F. A. 80°. I. C. 85.
9. **768.** FELLAH : man, ætat. 70. I. C. 96.
10. **769.** FELLAH : woman, ætat. 30. I. C. 81.
11. **770.** FELLAH of the better class : man, ætat. 50. I. C. 83.
12. **771.** FELLAH of Lower Egypt : woman, ætat. 70. F. A. 75°. I. C. 78.
13. **772.** FELLAH of Lower Egypt : man, ætat. 30. F. A. 73°. I. C. 74.
14. **773.** FELLAH of Lower Egypt : woman, ætat. 20. F. A. 75°. I. C. 76.

Nos. 766 to 770, inclusive, were merely marked *Arab*, but they are all obviously Fellahs.

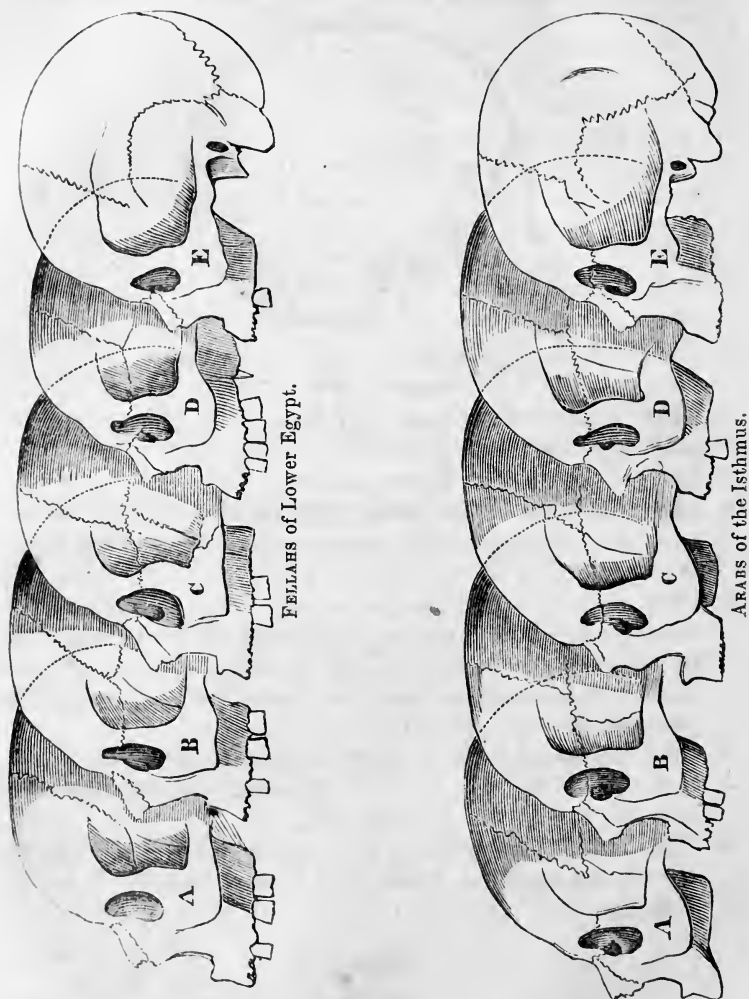
Nos. 771 to 773, inclusive, I refer to the same people, though sent me as Jewish crania.

15. **774.** FELLAH : village-chief, or "Sheik-el-belled," from Shubra, ætat. 80. I. C. 88.
16. **775.** FELLAH of Shubra : woman of 70. I. C. 75.
17. **776.** FELLAH of Shubra, in Lower Egypt : woman, ætat. 20. F. A. 79°. I. C. 74.
18. **778.** FELLAH of Mattorieh, (Heliopolis,) in Lower Egypt : woman, ætat. 30. F. A. 75°. I. C. 72.
19. **779.** FELLAH of Mattorieh : woman, ætat. 40. F. A. 80°. I. C. 86.

Nos. 499 to 779, from G. R. Gliddon, Esq.

[Nos. 499, 774 and 766 to 770, inclusive, have been labelled by Dr. Morton "Arab." But the osteological differences between these "Arabs" and the "Fellahs" with which they are associated, appear to me entirely too slight to warrant their separation. In the accompanying engravings, taken from *Crania Ægyptiaca*, it will be seen that the so-called Arab differ from the Fellah skulls mainly in having a somewhat more recedent forehead. The former are

probably the hybrid offspring of Fellah and Arabian parents, the Fellah element predominating. (See page 34.)



XII. INDOSTANIC RACE.

Ayras (?)

(Case 4.)

1. 1329. HINDU fanatic from Juggernaut : woman, ætat. 25. I. C. 86.

2. **1330.** Sumboo-sing, a HINDU of the Brahmin caste, hanged at Calcutta for murder, December, 1840. Ætat. 40. I. C. 91.



HINDU (1330).

3. **1331.** HINDU fanatic from Juggernaut, A. D. 1839, a beautiful head: man, ætat. 40. I. C. 87.
 4. **1332.** Gunga-Govind, HINDU, ætat. 40. I. C. 86.
 5. **1334.** SEPOY, or Hindu soldier, with cicatrised fracture and depression of the right frontal, malar and superior maxillary bones. Ætat. 40. I. C. 86.

6. **1335.** HINDU from the hospital of Calcutta, with syphilitic perforating ulcers of the cranium. Man, ætat. 60. I. C. 81.

The preceding six skulls, Nos. 1329 to 1335, inclusive, were procured in Calcutta by my friend Dr. Charles Hufnagle, and by him presented to me, A. D. 1847.

7. **712.** THUGG of India, executed at Calcutta for murder: man, ætat. 30. F. A. 80°. I. C. 90. Presented by Dr. Martin, of Calcutta, through W. A. Foster, Esq.
 8. **713.** THUGG, executed with the preceding, and presented by Dr. Martin, through W. A. Foster, Esq. Woman, ætat. 30. F. A. 76°. I. C. 79.

Bengalees.

(Case 4.)

1. **4.** BENGALÉE child of twelve years.
 2. **5.** BENGALÉE child of six years.
 3. **6.** BENGALÉE: man, ætat. 40. F. A. 81°. I. C. 85.
 4. **8.** HINDU of BENGAL: woman, ætat. 30. I. C. 73.

Nos. 4 to 8 were presented by Dr. Burrough.

5. **19.** BENGALÉE child of 5 years. From Dr. Joseph Carson.

6. **20.** HINDU of BENGAL : man, ætat. 40. I. C. 78. Dr. Burrough.
7. **25.** HINDU of BENGAL : woman, ætat. 25. I. C. 74. Wm. Cobb Hurry, Esq.
8. **28.** BENGALÉE child of seven years.
9. **29.** BENGALÉE child of five years.
10. **31.** HINDU of BENGAL : woman ætat. 30. I. C. 67.
11. **32.** HINDU of BENGAL : girl of twelve years.
Nos. 28 to 32 from Dr. Burrough.
12. **49.** HINDU : man, ætat. 70. I. C. 90. Dr. Joseph Carson.
13. **51.** HINDU of BENGAL : woman, ætat. 30. F. A. 77°. I. C. 70. Dr. Joseph Carson.
14. **83.** HINDU of BENGAL : girl of 16. I. C. 67. Dr. James Mease.
15. **410.** HINDU : man, ætat. 50. I. C. 84.
16. **411.** HINDU : man, ætat. 40. I. C. 86.
17. **413.** HINDU : man, ætat. 30. F. A. 83°. I. C. 79.
Nos. 410 to 413 from Henry Piddington, Esq., of Calcutta.
18. **432.** HINDU of BENGAL : man, ætat. 25. I. C. 86.
19. **442.** BENGALÉE : woman, ætat. 30. F. A. 79°. I. C. 69.
20. **443.** BENGALÉE : woman, ætat. 40. I. C. 84.
21. **444.** BENGALÉE : man, ætat. 70. I. C. 81.
Nos. 443 and 444 from Dr. Joseph Carson.
22. **547.** HINDU of BENGAL : woman, ætat. 30. I. C. 85.
23. **553.** HINDU of BENGAL : man, ætat. 30. I. C. 83.
24. **554.** HINDU of BENGAL : woman, ætat. 40. I. C. 75.
Nos. 553 and 554 from H. Piddington, Esq.
25. **948.** BENGALÉE : man, ætat. 40. I. C. 76-5.
26. **1309.** HINDU : man, ætat. 40. I. C. 84.
27. **1310.** HINDU : woman, ætat. 30. I. C. 74.
28. **1311.** HINDU : man, ætat. 50. I. C. 78.
29. **1312.** HINDU : woman, ætat. 40. I. C. 73.
Nos. 1309 to 1312 from Dr. James Mease.
30. **1344.** HINDU of BENGAL : man, ætat. 30. I. C. 75. Brought from India with other crania, by Dr. Mead, and presented to me, on his behalf, by Dr. John Watson, of New York, 1847.
31. **1554.** HINDU : found on the margin of the Ganges, by Dr. C. B. Matthews. Presented by Dr. B. H. Coates, March 2d, 1852. I. C.
32. **1047.** BENGALÉE : woman, ætat. 40. I. C. 67. From Dr. T. R. Calhoun.
33. **665.** HINDU, deposited by Dr. Ruschenberger.

34. **101.** HINDU : young woman.
 35: **111.** HINDU (?) The three preceding skulls are of uncertain locality.

XIII. INDO-CHINESE RACE.

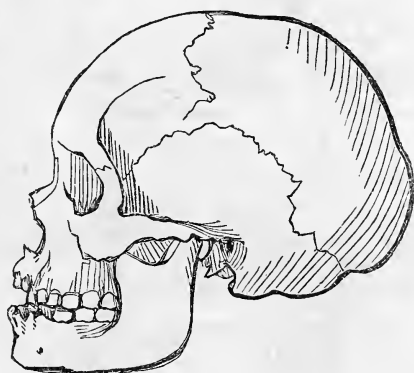
1. **666.** Skull of a BURMESE soldier.
2. **667.** Skull of a BURMESE soldier. Both from the late Dr. Harlan's collection. Presented by Mr. Harlan.

II. MONGOLIAN GROUP.

I. CHINESE RACE.

(Case 4.)

1. **3.** CHINESE : man, ætat. 60. Born in the province of Canton, I. C. 89. Dr. J. K. Mitchell. This man and three accomplices were executed for murder.
2. **56.** CHINESE : man, ætat. 60. I. C. 91. Dr. T. F. Betton, 1833.
3. **94.** CHINESE : man, ætat. 50. I. C. 70. One of the seventeen pirates who attacked and took the French ship "Le Navigateur" in the China Sea. Dr. Ruschenberger.



CHINESE (94).

4. **426.** CHINESE of Canton : man, ætat. 40. I. C. 83. Dr. Doornik.
5. **427.** CHINESE, hanged for forgery at Batavia, in Java : man, ætat. 30. F. A. 78°. I. C. 83. Dr. Doornik.
6. **550.** CHINESE of Canton : woman, ætat. 40. I. C. 75.
7. **1336.** CHINESE, hanged at Singapore for piracy, A. D. 1845. Man, ætat. 40. I. C. 98. The face in this instance conforms in every respect to the Mongolian type, but the cranium is one of the

most beautiful I have ever seen among any race or nation. Procured in Calcutta by my friend Dr. Charles Hufnagle, and by him presented to me, A. D. 1847.

8. **1526.** CHINESE child, ætat. From Cumsingmoom. J. Hopkinson, M. D., U. S. N.
9. **1527.** COCHIN-CHINESE from Turon Bay. Man, ætat. I. C. 91.5. J. Hopkinson, M. D., U. S. N.
10. **669.** CHINESE. From Dr. B. McCarta, M. D. Deposited by Mr. W. P. Johnson. I. C. 85.
11. **670.** NINGPO-CHINESE. From Dr. McCarta. Presented by Dr. J. Carson. I. C. 84.5.

II. JAPANESE RACE.

1. **668.** JAPANESE. Presented by Dr. A. M. Lynch, U. S. N. I. C. 80.



JAPANESE (668.)

1. **672.** Cranium of a Loo CHOO Islander.
2. **673.** Cranium of a Loo CHOO Islander.

Nos. 672 and 673 were presented by Dr. B. Vreeland, Passed Assistant Surgeon, U. S. N. (See page 52, *note*.)

III. HYPERBOREAN RACE.

(Case 4.)

1. **1355.** Cast of the skull of a young BURAT-MONGOL. Professor Retzius.
1. **725.** Cast of the skull of a KAMSCHATKAN female. Dr. O. S. Fowler.

[It is long and flat, and presents quite a different proportion between the bi-temporal, longitudinal and vertical diameters from what we find in the heads of the true Hyperboreans. The low, flat, and

smooth forehead is devoid of the keel-like formation perceptible in the Eskimo. The carinated ridge makes its appearance along the middle and posterior part of the inter-parietal suture. The widest transverse diameter is near the superior edge of the temporal bone; from this point the diameter contracts both above and below. As in the Eskimo, the occiput is full and prominent, as is also the posterior surface of the parietal bones, which surface, in the Eskimo, however, is flat. The forehead inclines upwards and backwards to a prominence in the middle of the inter-parietal suture, from which point it is rounded off posteriorly. The face forms a broad oval; the orbits are large, deep, and have their transverse axes at right angles with the median line of the face. The malar bones, though large, are neither so prominent nor high as in the Eskimo. They are laterally compressed, more rounded, and less flared out at their inferior margin in the Polar man. The anterior nares are flat and smooth, and the alveolar arch somewhat more prominent than in the typical Eskimo, as is shown by comparing them by the *norma verticalis*. Upon examining the basis cranii, we observe, at once, the globular fulness of the occipital region, and an alteration in the general configuration of the base, as compared with that of the true Arctic skull. The greatest breadth is not confined to the zygomatic region, for lines drawn from the most prominent point of the zygomæ to the most prominent point of the mastoid process, on either side, are parallel to each other.]

1. 1553. KALMUCK. Presented by Charles Cramer, Esq., of St. Petersburg, Russia. F. A. 81°. I. C. 93.75.



KALMUCK (1553).

[In the accompanying figure, the reader will observe that the cra-

nium is nearly globular, while the forehead is broad, flat, and less receding than in the Eskimo and Kamtskatkan. Without being ridged or keel-like, the median line of the cranium forms a regular arch, the most prominent point of which is at the junction of the coronal and sagittal sutures. Behind and above the meatus, the head swells out into a globe or sphere, instead of tapering away postero-laterally towards the median line, as in the Eskimo crania. This appearance is also well seen in the head figured by Blumenbach.* He says of it, "*habitus totius cranii quasi inflatus et tumidus.*" The eye at once detects the striking difference between the facial angle of this cranium and that of the Eskimo figured on the next page. In the latter, the facial bones resemble a huge wedge lying in front of the head proper. This appearance, it is true, is somewhat dependent upon the obtuseness of the angle of the lower jaw, but mainly, as will be seen, upon the prominent chin and prognathous jaw. In the Kalmuck, the facial bones form a sort of oblong figure, and are by no means so prominent. The face is broad, flat, and square; the superciliary ridges are massive and prominent; the orbits are large, and directed somewhat outwards; the ossa nasi are broad and rather flat, forming an obtuse angle with each other; the malar bones are large, strong, protuberant, and roughly marked.]

1. **1248.** LAPLANDER: man, ætat. 40. I. C. 94.
2. **1250.** Cast of the skull of a LAPLAND child two years of age.
3. **1257.** Cast of the skull of a LAPLAND woman.
4. **1552.** True LAPLANDER. F. A. 83.5°. I. C. 102.
5. **1551.** Hybrid LAPLANDER. F. A. 83°. I. C. 78.75.

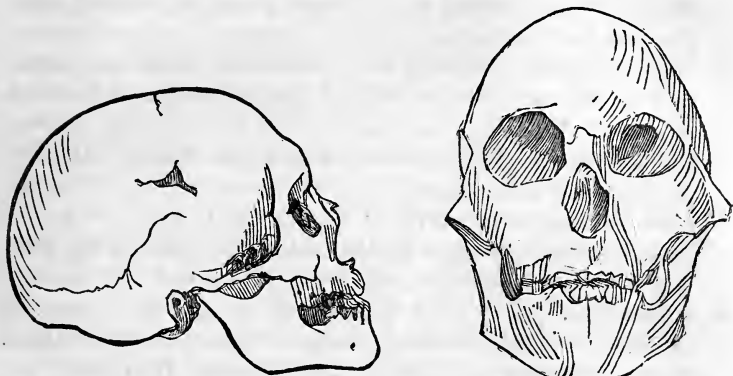
The preceding 5 skulls from Prof. Retzius.

1. **1558.** ESKIMO skull. Presented to Dr. E. K. Kane by Surgeon Donnet of H. M. S. Assistance, North Baffin's Bay. Lat. 76° 30' N. I. C. 98. F. A. 73°.

[The following brief *resumé* of the characteristics of an Eskimo cranium will serve as a commentary upon the accompanying figures, which represent the front and lateral views of the head above mentioned (No. 1558). The male Eskimo skull is large, long, narrow, pyramidal; greatest breadth near the base; sagittal suture prominent and keel-like, in consequence of the angular junction of the

* Tab. XIV. of the *Decades*.

parietal and two halves of the frontal bones ; proportion between length of head and height of face as 7 to 5 ; proportion between cranial and facial halves of the occipito-mental diameter as $4\frac{1}{2}$ to 5 ; attachment for the temporal muscle large ; zygomatic fossæ deep and capacious ; mastoid processes thick and prominent ; gle-



Lateral view of Cranium.

Front view of same.

ESKIMO (1558).

(From Dr. Kane's *First Arctic Voyage*.)

noid cavity capacious, and adapted to considerable lateral motion of the condyles ; forehead flat and receding ; occiput full and salient ; face broad and lozenge-shaped, the greatest breadth being just below the orbits ; malar bones broad, high, and prominent, the external surface looking antero-laterally ; orbits large and straight ; zygomatic arches massive and widely separated ; length of the face one inch less than the breadth ; nasal bones flat, narrow, and united at an obtuse angle, sometimes lying in the same plane as the nasomaxillary processes ; superior maxilla massive and prognathous, its anterior surface flat and smooth, superior alveolar margin oval ; inferior margin of anterior nares flat, smooth, inclining forwards and downwards ; inferior maxilla large, long, and triangular ; semilunar notch quite shallow ; angles of the jaw flared out, and chin prominent ; teeth large, and worn in such a manner as to present, in the upper jaw, an inclination from without inwards, upwards, and laterally, and in the lower jaw, just the reverse ; antero-posterior diameter of cuspids greater than the transverse ; configuration of the basis cranii triangular, with the base of the triangle forward between the zygomæ, the truncated apex looking posteriorly ; breadth of base about one-half the length ; shape of foramen mag-

num an irregular oval ; anterior margin of foramen magnum on a line with the posterior edge of the external meati.

The female cranium differs from the male in being smaller, lighter, and presenting a smoother surface and more delicate structure. The malar bones are less massive, the face not quite so broad, and the anterior surface of the superior maxilla concave rather than flat.]

2. **1559.** ESKIMO. Taken by Dr. Kane, from the Eider duck resorts, near the "Three Islands of Baffin." Lat. 73° 50' N. I. C. 84.25 F. A.

3. **1560.** ESKIMO. Taken from a low island off Storöë. Lat. 72° 15' N. I. C. 80.5. F. A.

4. **1561.** ESKIMO from Storöë. I. C. 81. F. A.

The above 4 crania were presented to the Academy by the late Dr. E. K. Kane, U. S. N., of the Grinnell Arctic Expedition.

5. **1562.** ESKIMO skull obtained by Dr. E. K. Kane from an ancient grave or cairn, at the Eskimo village of Etah, north of Cape Alexander. Presented by Dr. J. K. Kane, Aug. 12, 1856.

6. **1563.** ESKIMO skull from the Danish settlement of Upernavick. Presented by Dr. S. W. Mitchell, Aug. 12, 1856.

7. **674.** ESKIMO skull.

8. **675.** ESKIMO skull.

9. **676.** ESKIMO skull.

10. **677.** ESKIMO skull.

11. **678.** ESKIMO skull.

12. **679.** ESKIMO skull.

13. **200.** ESKIMO skull.

These crania were procured at Godhavn, Disco Island, coast of Greenland, by Dr. B. Vreeland, U. S. N., and by him kindly presented to the Academy.*

III. MALAY GROUP.

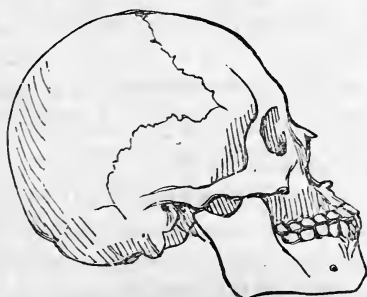
I. MALAYAN RACE.

(Case 5.)

1. **41.** TAGELOS Malay, native of the Island of Luzon (Luconia) in the Manilla Sea. Woman, ætat. 30. I. C. 68. Dr. Burroughs.

* The above seven Eskimo crania, together with the two Loo Chooan skulls recorded on page 48 were opportunely received from Dr. Vreeland, while the sheets of this and the preceding "signatures" of the Catalogue were passing through the press, April 7th, 1857. It will be observed that the introduction of these nine heads in their appropriate places increases the total number of skulls in the Collection from 1035 to 1044, and causes the Catalogue to differ slightly from the tabular enumeration given on page 15.

2. **495.** MALAY of Ceylon; Singalese: man, ætat. 20. I. C. 85.
Dr. Ruschenberger.
3. **1338.** MALAY of Amboyna; Saparoua: man, ætat. 30. I. C. 73.
4. **459.** MALAY of Amboyna; man, ætat. 30. I. C. 84. Dr. Ruschenberger.
5. **430.** MALAY of Amboyna; man, ætat. 30. F. A. 73°. I. C. 92.
6. **460.** MALAY of Malacca: man, ætat. 40. I. C. 77. Dr. Ruschenberger.
7. **546.** MALAY of Macassar: man, ætat. 50. I. C. 92.
8. **429.** MALAY of Macassar, in the Island of Celebes: man, ætat. 50. F. A. 82°. I. C. 97.
9. **1340.** MALAYAN of Macassar: man, ætat. 40. I. C. 77.
10. **1341.** JAVANESE Malay: man, ætat. 35. I. C. 83.
11. **545.** JAVANESE Malay: man, ætat. 40. I. C. 81.
12. **46.** JAVANESE Malay: man, ætat. 40. I. C. 93. Dr. Mead.
13. **428.** JAVANESE of the District of Djogocarta: man, ætat. 20. I. C. 88.
14. **47.** MALAY of the Island of Bally, coast of Java. F. A. 69°. I. C. 82. Dr. Mead.



MALAY (47).

15. **1337.** MALAYAN, hanged at Singapore for piracy, A. D. 1845. Man, ætat. 40. I. C. 96.
16. **425.** MALAY of Borneo: man, ætat. 40. I. C. 91.
17. **1186.** MALAY of Borneo: man, ætat. 40. I. C. 89. Hanged at Batavia for piracy, A. D. 1826. From Dr. Jones, of New Orleans.
18. **1316.** MALAY child: Island of Gee Foo. H. Piddington, Esq.
19. **543.** MALAY: man, ætat. 40. I. C. 96.
20. **544.** MALAY: man, ætat. 40. I. C. 91.
21. **1339.** MALAYAN of Madura: man, ætat. 30. I. C. 96.
22. **424.** MALAY of the Island of Madura, in the Indian Archipelago: man, ætat. 30. I. C. 80.

23. **201.** Cast of the skull of a MADURESE. Presented by Mr. Harlan.
24. **433.** MALAY of the Island of Sumbawa : man, ætat. 30. I. C. 80.
 Nos. 1338, 1339, 1340 and 1341 were brought from India by Dr. Mead, and presented to me on his behalf, by Dr. John Watson, of New York, 1847.
 Nos. 424, 425, 428, 429, 430 and 433 are from Dr. Doornik.
 Nos. 543, 544, 545 and 546, from Dr. Doornik's collection, were presented by Dr. Jones of New Orleans, through B. F. French, Esq.

Dyaks.

1. **1523.** Skull of a DYAK woman, prepared as a trophy according to the usage of these people. Obtained in an assault upon a native village, on the river Baryà, near Pontianek, in the S. W. region of Borneo. Brought from Sarawak, in that Island, A. D. 1850, by Mr. Wm. A. Gliddon, and by him presented to me. I. C. 81. Ætat. 25.
2. **1525.** KIONG-DYAK, from the dead-house of those people, in the interior of Borneo : Woman, ætat. 30. I. C. 86. From J. Hopkinson, M. D., U. S. N.

II. POLYNESIAN RACE.

Kanakas.

(Case 5.)

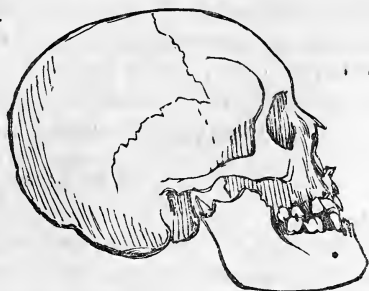
1. **564.** KANAKA, of Oahu : woman. I. C. 82.
2. **565.** KANAKA, or Sandwich Islander of Oahu. I. C. 83.
3. **566.** KANAKA, or Sandwich Islander of Oahu : man.

These three skulls, Nos. 564, 565, 566, were presented to Dr. Ruschenberger by a chief of the Sandwich Islands, Dr. R. having solicited them for scientific purposes. Two of these skulls have the face-bones completely and somewhat skilfully separated from the head ; which, so far as I can learn, was a customary usage in the performance of human sacrifices : and these remains were probably disinterred from that part of the Morai devoted in former years to this class of persons. Capt. Cook's head, when restored to his friends after his murder at Owyhee, had been divided precisely in this way, although but a few days had elapsed. See *Cook's Third Voyage*, Volume 2, page 80.

4. **572.** KANAKA of the Sandwich Islands : man, ætat. 40. F. A. 78°. I. C. 84. Dr. J. K. Townsend.

[This head affords a good idea of the general cranial type of Poly-

nesia. It is elongated; the forehead recedent; the face long and oval; the breadth between the orbits considerable; the alveolar



KANAKA (572).

margin of the superior maxillary slightly prominent; the lower jaw large and regularly rounded. The breadth and shortness of the base and the peculiar flatness of the sub-occipital region give to the whole head an elongated or drawn-out appearance.]

5. **695.** KANAKA of Oahu: girl of 10 years. F. A. 82°. Dr. J. K. Townsend.
6. **1300.** KANAKA, or native of the Sandwich Islands: man, ætat. 40. I. C. 82. Lt. I. G. Strain, U. S. N. 1846.
7. **1308.** Head of a KANAKA or Sandwich Islander: woman? ætat. 30. Dr. Gibbon.

New-Zealanders, Marquesas, &c.

1. **680.** NEW ZEALAND chief: tattooed. Dr. Samuel McClellan.
2. **1324.** Head of a NEW ZEALAND chief, embalmed according to the custom of those Islanders.
3. **1325.** Head of a NEW ZEALANDER, prepared in the same manner as No. 1324.
4. **202.** NEW ZEALAND head, tattooed. From the late Dr. Harlan's collection. Presented by Mr. Harlan.
1. **1531.** MARQUESAS skull from the village of Whytahoo, Resolution Bay, in the Island of Christina, where it was obtained in 1841, by Lt. H. A. Steele, U. S. N., for Dr. L. P. Bush, and by the latter presented to me. F. A. 82°. I. C. 90.5. The Christina Islanders are cannibals.

[This head exhibits a narrow, dolicho-cephalic form; the frontal region flat and narrow; the posterior region broad and ponderous;

the face massive and roughly marked; the superior maxilla more everted than in the Sandwich Islander; altogether a low and brutal form.]

' IV. AMERICAN GROUP.

I. BARBAROUS RACE.

α. NORTH AMERICANS.

(Case 5.)

Arickarees.

1. **649.** Indian of the ARICKAREE tribe of Upper Missouri: woman, ætat. 40. F. A. 76°. I. C. 73. Dr. B. B. Brown.
2. **949.** ARICKAREE Indian of the Upper Missouri: woman, ætat. 20, with the frontal suture. I. C. 75. Mr. J. N. Nicollet.
3. **748.** ARICKAREE Indian of Missouri: woman, ætat. 50. I. C. 80. From Mr. J. N. Nicollet.

Assinaboins.

1. **659.** ASSINABOIN Indian of Upper Missouri: man ætat. 50. F. A. 79°. I. C. 101. Dr. B. B. Brown of St. Louis.
 2. **1230.** ASSINABOIN Indian of Missouri: woman, ætat. 20. I. C. 85.
 3. **1231.** ASSINABOIN woman, ætat. 18. I. C. 85.
- Nos. 1230 and 1231 from J. J. Audubon, Esq., A. D. 1845.

Cherokees.

1. **632.** CHEROKEE? woman, ætat. 20. F. A. 77°. I. C. 90. "From a cave at Springtown, north of the river Hiwassee, and near an ancient battle-ground. The form of the cranium and the developments are strikingly characteristic of the mountain Cherokee of the present day."
 2. **633.** CHEROKEE? girl of 14. F. A. 76°. Found with the preceding.
 3. **634.** CHEROKEE: woman, ætat. 20. F. A. 74°. I. C. 84.
 4. **635.** CHEROKEE? child, eight years of age.
- Nos. 632 to 635, inclusive, from Dr. Martin, U. S. A.
5. **1285.** CHEROKEE, from a mound in South Carolina. I. C. 96. Dr. Hardy, of Ashville, North Carolina.
 6. **1297.** CHEROKEE: man, ætat. 50. I. C. 84. From South Carolina. Dr. Hardy.

Chetimaches.

1. **43.** CHETIMACHE Indian of Louisiana : man, ætat. 40. F. A. 77°. I. C. 84. See No. 70. Dr. Le Beau.
2. **70.** CHETIMACHE Indian of Louisiana : woman, ætat. 50. F. A. 71°. I. C. 75. Dr. J. Le Beau. See *Crania Americana*, plate 19 and page 163.

Chinooks.

1. **457.** CHINOOK Indian of Oregon : woman, ætat. 60. F. A. 73°. I. C. 82. Natural form. Dr. John K. Mitchell.
2. **462.** Skull of a CHINOOK chief of Oregon, greatly flattened by art : ætat. 60. F. A. 72°. I. C. 72. From Dr. J. K. Townsend, who also brought me the cradle and other apparatus by means of which this singular distortion is produced. See *Crania Americana*, page 208 and plate 43.
3. **578.** CHINOOK slave of Oregon : head of the natural form. Woman, ætat. 40. F. A. 76°. I. C. 75. Dr. Townsend. *Crania Americana*, plate 42 and page 207.
4. **641.** Indian child of the CHINOOK tribe, about four years old : much flattened by art. Dr. J. K. Townsend.
5. **721.** Skull of a CHINOOK Indian, flattened by art : man, ætat. 50. Columbia River. I. C. 88. W. Slakum, Esq., U. S. N.
6. **1349.** Skull of a CHINOOK child six years old, flattened by art. From Port Discovery, Straits of Fuca. Dr. Wm. Maxwell Wood, U. S. N. 1847.
7. **1350.** Entire desiccated body of a CHINOOK infant, aged about two years. The head is greatly flattened by artificial processes. From Dr. Wm. Maxwell Wood, U. S. N. 1847.
8. **203.** CHINOOK skull from Clatsop. Presented by Dr. J. H. B. McClellan, May 5th, 1856.

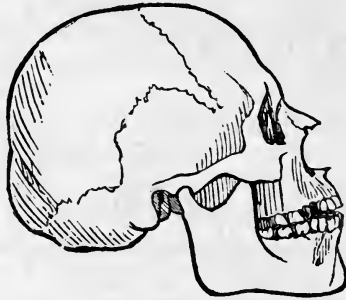
*(Case 6.)**Chippeways.*

1. **683.** CHIPPEWAY warrior of Upper Canada, ætat. 50. F. A. 84°. I. C. 97. H. R. Schoolcraft, Esq. *Crania Americana*, plate 28 and page 177.
2. **684.** CHIPPEWAY Indian : man, ætat. 30. F. A. 73°. I. C. 85. Prof. Eaton.

Cotonays.

1. **744.** COTONAY or Black-foot Indian, of the Rocky mountains : man, ætat. 40. I. C. 94. From Mr. J. N. Nicollet.
2. **745.** COTONAY or Black-foot : woman, ætat. 40. I. C. 75.

3. **1227.** COTONAY (Black-foot) chief, named the "Bloody Hand," ætat. 50. I. C. 88. F. A. 75°. Upper Missouri. From J. J. Audubon, Esq. A. D. 1845.



COTONAY (1227).

Creeks.

1. **441.** CREEK warrior of Alabama. F. A. 74°. I. C. 91. Dr. J. Pancoast.
2. **579.** ATHLA-FICKSA: a Muskogee or CREEK chief, ætat. 50. F. A. 72°. I. C. 97. Dr. H. S. Rennolds, U. S. N. *Crania Americana*, plate 26 and page 170.
3. **751.** CREEK woman of Georgia, ætat. 30. I. C. 81. Dr. Joseph Walker.
4. **1454.** CREEK Indian of Western Arkansas: woman, ætat. 70. I. C. 86. Dr. S. W. Woodhouse, 1850.

Dacotas.

1. **605.** DACOTA or SIOUX Indian of Wisconsin: man, ætat. 20.



DACOTA or SIOUX (605).

F. A. 77°. I. C. 90. Dr. Poole. *Crania Americana*, plate 39 and page 198.

2. **112.** DACOTA or SIOUX Indian.
3. **204.** DACOTA or SIOUX Indian. From Dr. T. G. Morton.

Hurons.

1. **15.** HURON chief, ætat. 60, killed near Detroit in a rencontre with another Indian. F. A. 73°. I. C. 75. See *Crania Americana*, plate 37.
2. **607.** HURON? Indian, from Cleveland, Ohio: woman, ætat. 40. F. A. 76°. I. C. 82. Dr. Mendenhall.
3. **1217.** INDIAN of the HURON? tribe. I. C. 86.
4. **1218.** HURON Indian: woman, ætat. 40. I. C. 83.

These two skulls were taken from a mound near Detroit, by Lt. Meigs, U. S. A., A. D. 1844.

Illinois.

1. **1010.** ILLINOIS Indian.
2. **1042.** ILLINOIS Indian.

Iroquois.

1. **16.** IROQUOIS? Exhumed with many others near Lake Erie, about 20 miles east of Niagara, A. D. 1824. F. A. 74°. I. C. 103. Mr. Thomas Fisher.
2. **119.** IROQUOIS Indian.
3. **989.** INDIAN warrior: IROQUOIS? ætat. 80. I. C. 89. Dr. W. B. Casey.

Lenapes, or Delawares.

1. **40.** LENAPE or DELAWARE Indian: woman, ætat. 40. F. A. 76°. I. C. 82. Dr. Z. Pitcher. See *Crania Americana*, plate 32 and page 189.
2. **115.** LENAPE or DELAWARE Indian.
3. **118.** LENAPE or DELAWARE Indian.
4. **418.** MANTA Indian? A tribe of the Lenapé or Delaware nation. F. A. 79°. I. C. 75. Found in excavating near the bank of the Delaware River in New Jersey, about four miles above Burlington. The body, with several others, was buried in the *sitting* posture. Dr. Edward Swain.
5. **1263.** Cranium of a LENAPE or DELAWARE Indian: man, ætat. 30. I. C. 80. Dug from an aboriginal cemetery at Richmond, on the Delaware River, about four miles north of Philadelphia, A. D. 1847. The atlas vertebra is anchylosed with the occipital bone. Mr. Isaac Morris.

6. **1264.** LENAPE or DELAWARE Indian : woman, ætat. 50. I. C. 81.
One of those massacred by the whites at the settlement on White River, Indiana. Dr. E. Fussell.
 7. **1265.** LENAPE or DELAWARE Indian.
 8. **205.** DELAWARE Indian : fragmentary.
 9. **206.** DELAWARE Indian : fragmentary.
- Nos. 205 and 206 were dug up from a street in Philadelphia.
Presented by Dr. Geo. P. Oliver, November, 1852.
10. **568.** MINSI (?) LENAPE.

Mandans.

1. **643.** Indian of the MANDAN tribe : woman, ætat. 16. F. A. 77°. I. C. 86. Dr. B. B. Brown.
 2. **644.** MANDAN Indian of Missouri : woman, ætat. 40. F. A. 74°. I. C. 79. Dr. B. B. Brown.
 3. **738.** MANDAN Indian of the Upper Missouri : woman, ætat. 30. I. C. 77.
 4. **739.** MANDAN Indian of the Upper Missouri : woman, ætat. 30. I. C. 81.
 5. **740.** MANDAN Indian of the Upper Missouri : man, ætat. 40. I. C. 91.
 6. **741.** MANDAN Indian of the Upper Missouri : man, ætat. 50. I. C. 85.
 7. **742.** MANDAN Indian of the Upper Missouri : man, ætat. 50. I. C. 86.
- Nos. 738 to 742, inclusive, from J. N. Nicollet, Esq.

Menominees.

1. **35.** MENOMINEE Indian of Michigan : woman, ætat. 30. F. A. 72°. I. C. 74. J. A. Lapham, Esq.
2. **44.** MENOMINEE Indian of Michigan : woman, ætat. 50. F. A. 75°. I. C. 77. J. A. Lapham, Esq., of Milwaukee.
3. **78.** Indian of the MENOMINEE tribe of Michigan : man, ætat. 40. F. A. 78°. I. C. 88. J. A. Lapham, Esq.
4. **454.** MENOMINEE Indian of Michigan. F. A. 79°. I. C. 88. Dr. Saterlee, U. S. A. *Crania Americana*, plate 29 and page 179.
5. **563.** MENOMINEE Indian : woman, ætat. 40. F. A. 76°. I. C. 87. J. A. Lapham, Esq.
6. **1220.** MENOMINEE Indian of Michigan. I. C. 88. Mr. Lapham.
7. **1222.** NATONAKE, a MENOMINEE chief, ætat. 40. I. C. 86. Mr. J. P. Wetherill.

Miamis.

1. **106.** MIAMI Indian.
2. **407.** MIAMI Indian of Indiana. F. A. 75°. I. C. 87. Dr. Tuley.
3. **541.** MIAMI Indian.
4. **542.** MIAMI Chief, ætat. 45. F. A. 75°. I. C. 95. Dr. J. W. Davies, Indiana. *Crania Americana*, plate 30 and page 182.
5. **1052.** MIAMI Indian.
6. **1053.** MIAMI Indian.
7. **1054.** MIAMI Indian. F. A. 79°.
8. **1056.** MIAMI Indian.
9. **1055.** MIAMI : woman, ætat. 40. F. A. 79°. I. C. 81.
10. **1057.** MIAMI : woman, ætat. 30. F. A. 77°. I. C. 84.
11. **1058.** MIAMI : child twelve years old.

The preceding three Miami skulls were obtained near Pendleton, Indiana, by Dr. Edwin Fussell.

12. **1233.** MIAMI Indian : woman, ætat. 40. I. C. 84. Rev. W. F. Ferguson. 1845.

Minetaris.

1. **650.** Indian of the MINETARI tribe of Missouri : woman, ætat. 40. F. A. 74°. I. C. 87.
2. **746.** MINETARI or Gros-ventre of Missouri : woman, ætat. 30. I. C. 82.
3. **747.** MINETARI or Gros-ventre Indian of Missouri : woman, ætat. 40. I. C. 83.
4. **749.** MINETARI or Gros-ventre of Missouri : man, ætat. 40. I. C. 94.

Nos. 746 to 749, inclusive, from Mr. J. N. Nicollet.

Mohawks.

1. **895.** MOHAWK Indian : man, ætat. 50. Exhumed near Manheim, New York. I. C. 89.
2. **896.** MOHAWK Indian : woman, ætat. 80. Obtained with the preceding. I. C. 83.
3. **897.** MOHAWK Indian : girl of 16. Found with the preceding. I. C. 81.

Nos. 895 to 897, inclusive, from L. Vanuxem and J. Beardsley, Esqs.

*(Case 7.)**Narragansets.*

1. **693.** NARRAGANSET Indian, from an old cemetery of that tribe on the western shore of Tiverton, in Rhode Island. Man, ætat. 30. I. C. 85. Dr. Thomas C. Dunn.

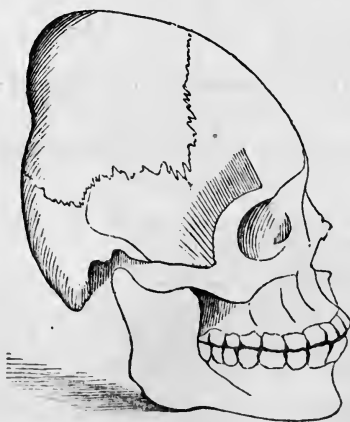
Series of eight skulls, 950 to 957, of the Narraganset tribe of Indians, of Rhode Island : from Dr. Usher Parsons, of Providence, R. I. 1840.

2. **950.** NARRAGANSET : woman, ætat. 70. F. A. 82°. I. C. 85.
3. **951.** NARRAGANSET : man, ætat. 40. F. A. 72°. I. C. 80.
4. **952.** NARRAGANSET : woman, ætat. 80. I. C. 84.
5. **953.** NARRAGANSET : woman, ætat. 40. F. A. 72°. I. C. 77.
6. **954.** NARRAGANSET : woman, ætat. 30. I. C. 77.
7. **955.** NARRAGANSET : man, ætat. 60. F. A. 75°. I. C. 78.
8. **956.** NARRAGANSET : man, ætat. 70. F. A. 74°. I. C. 90.
9. **957.** NARRAGANSET : man, ætat. 25. F. A. 73°. I. C. 82
10. **1040.** NARRAGANSET Indian : woman, ætat. 70, with a singularly elongated head. I. C. 72.

Natchez.

1. **102.** NATCHEZ Indian. Cast.
2. **1106.** NATCHEZ Indian, moulded by art into a flattened cone. Mr. J. Tooley, Jr., of Natchez, 1840. See American Journal of Science, for July, 1846.

For further information on this mode of moulding the head among the Natchez tribes, see Garulaso de la Vega, Hist. de la Florida, Lib. IV. cap. 13 ; and Crania Americana, page 160.



NATCHEZ (1106).

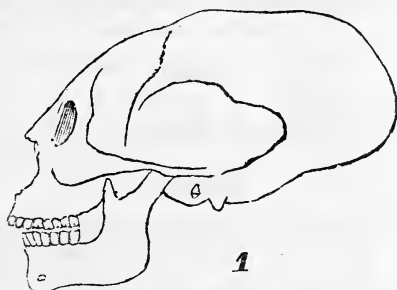
Naticks.

1. **103.** NATICK Indian of Nantucket.
2. **104.** NATICK Indian of Nantucket.
3. **107.** NATICK Indian of Nantucket.

4. 110. NATICK Indian of Nantucket.
5. 401. NATICK Indian of Nantucket. Dr. Paul Swift.

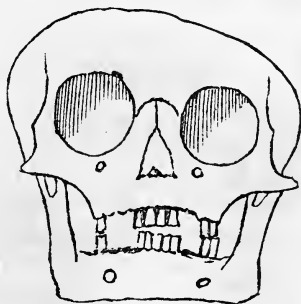
Oregon Tribes.

1. 461. Skull of a CLICKITAT Indian of Oregon, much flattened by art. Man, ætat. 50. F. A. 70°. I. C. 84. Dr. J. K. Townsend. *Crania Americana*, plate 48 and page 214.
2. 207. CLICKITAT Indian from Dewamish or White river (Lat. 47° 30' N.). Presented by Dr. J. H. B. McClellan, who received it from Mr. George Gibbs, of Steilacoom, Washington Territory.
3. 573. Indian of the KOWALITSK tribe of Oregon : artificially com-



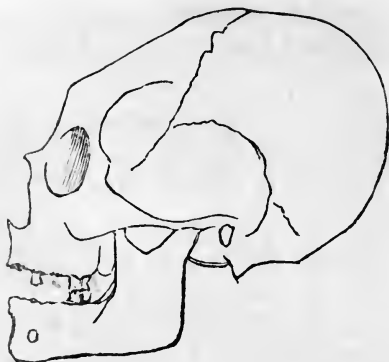
KOWALITSK (573).

pressed. Man, ætat. 40. F. A. 66°. I. C. 79. Dr. J. K. Townsend. *Crania Americana*, plates 49 and 50, and page 215.



KOWALITSK (573).

4. 574. Indian of the CALAPOOYAH tribe of Oregon : artificially compressed. Man, ætat. 50. F. A. 68°. I. C. 91. Dr. J. K. Townsend. *Crania Americana*, plate 47 and page 212.



CALAPOOYAH (574).

5. **575.** CLATSAP Indian of Oregon : artificially compressed. Man, ætat. 50. F. A. 70°. I. C. 82. Dr. J. K. Townsend. *Crania Americana*, plate 46 and page 211.



CLATSAP (575).

6. **576.** KILLEMOK chief.
 7. **577.** Indian of the KLATSTONI tribe of Oregon : artificially compressed. Man, ætat. 50. F. A. 70°. I. C. 75. Dr. J. K. Townsend. *Crania Americana*, plate 44 and page 210.
 8. **208.** NISQUALLY Indian of the Selish or Flathead family. From Washington Territory. Presented by Dr. J. H. B. McClellan, May 5th, 1856.

Osages.

1. **54.** OSAGE warrior of Arkansas, ætat. 30. F. A. 77°. I. C. 81. Dr. Z. Pitcher. See *Crania Americana*, plate 41 and page 199.
 2. **660.** OSAGE Indian of Upper Missouri : woman, ætat. 30. F. A. 80°. I. C. 84. Dr. B. B. Brown.

Otoes.

1. **755.** OTOE warrior of the Upper Missouri, ætat. 50. I. C. 80.
2. **756.** OTOE warrior of the Upper Missouri, ætat. 60. I. C. 94.
3. **757.** OTOE warrior of the Upper Missouri, ætat. 50. I. C. 83.
4. **758.** OTOE child, eight months old.

Nos. 755 to 758, inclusive, from Dr. J. Walker, U. S. A.

Ottawas.

1. **1006.** OTTAWA chief of Michigan, ætat. 50. I. C. 85.
2. **1007.** OTTAWA warrior, ætat. 75. I. C. 89.
3. **1008.** OTTAWA woman, ætat. 60. I. C. 76.
4. **1009.** OTTAWA boy, ætat. 14. I. C. 77.

The four preceding skulls were obtained in Michigan by Dr. George C. Leib, A. D. 1842.

Ottigamies.

1. **415.** Indian of the OTTIGAMIE tribe, a half-breed, killed in a quarrel at Quincy, Illinois, A. D. 1830. F. A. 76°. Dr. S. P. Hildreth.
2. **639.** OTTIGAMIE or Fox Indian of Wisconsin : man, ætat. 50. F. A. 82°. I. C. 92. Dr. B. B. Brown. *Crania Americana*, plate 31 and page 184.
3. **694.** OTTIGAMIE or Fox Indian of Illinois : man, ætat. 80. I. C. 95. Dr. P. Gregg.
4. **209.** OTTIGAMIE Indian.

Pawnees.

1. **540.** PAWNEE Indian of the Platte River : woman, ætat. 30. F. A. 75°. I. C. 75. See *Crania Americana*, plate 38.
2. **1043.** PAWNEE Indian : woman, ætat. 30. F. A. 78°. I. C. 74. Dr. Brown.

Penobscots.

1. **105.** PENOBSCOT Indian.
2. **89.** Indian of the GEPEPSCOT tribe, from Maine : man, ætat. 50. F. A. 76°. I. C. 80. Prof. Cleveland.

Potawatomes.

1. **657.** POTAWATOMIE Indian of Michigan : man, ætat. 50. F. A. 80°. I. C. 101. Dr. Walker, U. S. A. *Crania Americana*, plate 34 and page 186.
2. **736.** POTAWATOMIE Indian.
3. **737.** POTAWATOMIE of Michigan : man, ætat. 70. I. C. 93. Col. J. J. Abert.
4. **1322.** Young POTAWATOMIE warrior, who killed the Miami chief

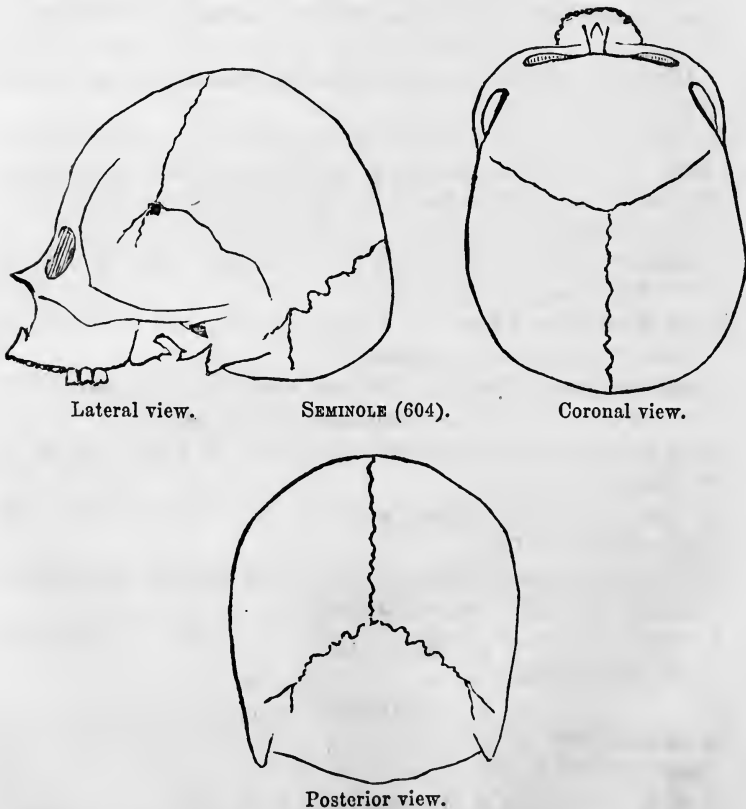
Majinnik, on the Wabash River, A. D. 1841, for which he was himself slain by the Miamis: ætat. 20. I. C. 79. Dr. Edwin Fussell.

Sauks.

1. **561.** SAUK Indian: woman, ætat. 40. I. C. 98. H. Cole, Esq.
2. **1039.** SAUK Indian. F. A. 80°. I. C. 83.5. Dr. B. B. Brown, of St. Louis.
3. **1246.** SAC (?) Indian: man, ætat. 60. I. C. 88. From a cemetery of the Sac and Fox tribes. Dr. Kite, 1845.

Seminoles.

1. **456.** SEMINOLE Indian of Florida. F. A. 81°. I. C. 93. H. B. Croom, Esq. *Crania Americana*, plate 54 and page 169.



2. **604.** SEMINOLE warrior of Florida, ætat. 50. F. A. 72°. I. C. 96. Dr. G. Emerson. *Crania Americana*, plate 22 and page 166.

3. **698.** SEMINOLE warrior of Florida : man, ætat. 40. F. A. 73°. I. C. 88. Col. J. J. Abert.
4. **707.** SEMINOLE Indian : man, ætat. 30. F. A. 78°. I. C. 93. Dr. E. H. Abadie, U. S. A. *Crania Americana*, plate 23 and page 168.
5. **708.** SEMINOLE warrior of Florida : woman, ætat. 30. F. A. 73°. I. C. 91. Dr. E. H. Abadie.
6. **726.** SEMINOLE woman of rank, ætat. 40. Florida. I. C. 79.
7. **727.** SEMINOLE boy of six years.
8. **728.** SEMINOLE boy of Florida, ætat. 4.
9. **729.** SEMINOLE girl of the Fuké-lusté-Hadjo tribe. I. C. 70.
10. **730.** SEMINOLE warrior, ætat. 40, killed at the battle of Okeechobee, in Florida, December 25, 1837. I. C. 79.
Nos. 726 to 730, inclusive, from Dr. E. H. Abadie, U. S. Army.
11. **732.** SEMINOLE warrior, ætat. 40, killed at the battle of Okeechobee, in Florida, December 25, 1837. I. C. 90. Dr. Abadie, U. S. A.
12. **733.** MICCO-SUKIE tribe of the SEMINOLE nation : woman, ætat. 30. I. C. 73. Fort Bassinger, Florida. Dr. Abadie, U. S. Army.
13. **754.** SEMINOLE warrior of Florida, ætat. 40. I. C. 89. From Dr. J. Walker, U. S. A.
14. **1105.** SEMINOLE : man, ætat. 40. F. A. 75°. I. C. 82. Dr. F. M. Robinson, Augusta, Georgia.
15. **1286.** SEMINOLE Indian of Florida : woman, ætat. 40. I. C. 72. James Couper, M. D. 1848.
16. **1556.** SEMINOLE Indian. Presented by Dr. C. D. Meigs, May, 1852.

Shawnees.

1. **440.** SHAWNEE skull ? Man, ætat. 50. I. C. 88. Dr. S. P. Hildreth, Marietta.
2. **606.** SHAWNEE ? woman, of Ohio, ætat. 30. I. C. 70. Dr. Hildreth.
3. **691.** SHAWNEE ? Indian of Ohio : a remarkably inequilateral skull. I. C. 87. Mr. Russell Smith.
4. **1210.** SHAWNEE ? Indian of Ohio : man, ætat. . I. C. 104. Mr. M. S. Weaver.

Shoshonés.

1. **1446.** Indian of the Trucky ? tribe, of the SHOSHONÉ nation : man, ætat. 40. I. C. 85. Obtained on the Trucky River, in the California mountains, by Capt. Fremont, A. D. 1845.
2. **1447.** SHOSHONÉ or Root-digger nation, from the mountains of Salmon trout River. Woman, ætat. 40. I. C. 75. Capt. Fremont.

3. **1448.** From the eastern slope of the Sierra Nevada, and does not pertain to any tribe of the Shoshonés : man, ætat. 60. I. C. 91. Capt. Fremont.
4. **1449.** SHOSHONÉ woman, ætat. 40. I. C. 72. Capt. Fremont, through Mr. Edward M. Kern.

Upsarookas.

1. **1228.** UPSAROOKA or Crow Indian : man, ætat. 40. Upper Missouri. I. C. 93.
2. **1229.** UPSAROOKA of the Upper Missouri : man, ætat. 40. I. C. 95. Nos. 1228 and 1229 from J. J. Audubon, Esq., A.D. 1845.

Winnebagos.

1. **559.** WINNEBAGO warrior. F. A. 79°. I. C. 92. Dr. P. Gregg.
2. **560.** WINNEBAGO warrior. F. A. 79°. I. C. 86. Dr. P. Gregg.

Yamassees.

1. **1214.** YAMASSEE? Indian, of Florida : man, ætat. 50.
2. **1215.** YAMASSEE? Indian, of Florida : man, ætat. 60.
3. **1216.** YAMASSEE? Indian, of Florida : man, ætat. 60. I. C. 70.

The three preceding skulls were obtained from a mound near Tampa, in Florida, by Dr. R. S. Holmes, U. S. A., A. D. 1844. They appear to have lain in the earth upwards of a century. Two of them are perforated by musket balls, and of course date subsequent to European discovery.

Californians.

1. **1514.** CALIFORNIA Indian, from a mound near Sacramento City. Man, ætat. 30. I. C. 87. F. A. 79°. Obtained by Mr. F. O. Eldredge, and presented by Dr. J. H. B. McClellan, A. D. 1850.
2. **1565.** INDIAN cranium : fragment of an upper jaw, with teeth and several other fragments of human bones, thickly encrusted with carbonate of lime. From a cave in Vallecita, Calaveras Co., California. In this cave upwards of 300 human crania were found embedded in limestone. Presented by Mr. Charles Ellet, Jr., through Dr. C. D. Meigs, May, 1854.

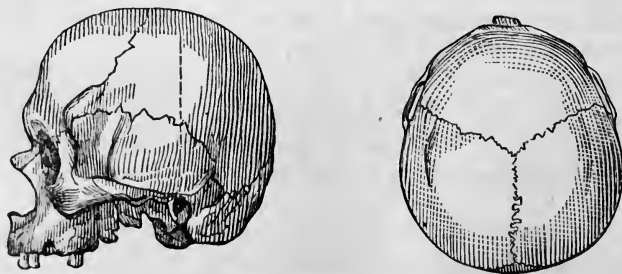
Miscellaneous.

(Case 8.)

1. **416.** INDIAN skull from a mound on the Upper Mississippi. F. A. 79°. I. C. 84. Dr. S. P. Hildreth. *Crania Americana*, plate 52 and page 220.
2. **1236.** INDIAN cranium, exhumed near Fort Chartres, Illinois, by Dr. Wislizenus. See *American Journal of Science and Arts* for May, 1846.

3. **1237.** Another INDIAN cranium from the same place, and from the same gentleman : woman, ætat. 68. I. C. 81.
4. **1315.** Skull of an aboriginal AMERICAN, found in a cave at Golconda, Illinois : woman, ætat. 40. I. C. 81. Dr. R. Harlan.
5. **1510.** INDIAN skull : man, ætat. 50. I. C. 89. Taken from an ancient mound in Illinois by Dr. Lippincott, of Chandlerville, in that State, and presented to me through Dr. R. S. Holmes. 1849.
6. **1511.** INDIAN cranium, found with the preceding, and also presented by Dr. Lippincott. Man, ætat. 70. I. C. 80.
7. **420.** INDIAN from the Cave at Steubenville, Ohio : man, ætat. 40. F. A. 80. I. C. 92. Dr. Robert M. S. Jackson. See No. 436, &c.
8. **436.** Skull from the Indian Cave-cemetery at Steubenville, Ohio : man, ætat. 60. F. A. 77°. I. C. 92. Dr. McDowell.
9. **437.** INDIAN from the Cave at Steubenville, Ohio : man, ætat. 60. F. A. 79°. I. C. 91. Dr. J. Andrews, of Steubenville. *Crania Americana*, plate 36 and page 235.
10. **438.** INDIAN from the Cave at Steubenville, Ohio : man, ætat. 50. F. A. 80°. I. C. 85. Dr. J. Andrews.
11. **439.** INDIAN from the Cave at Steubenville, Ohio : woman, ætat. 70. F. A. 78°. I. C. 78. Dr. J. Andrews.
12. **210.** INDIAN from the Cave at Steubenville, Ohio.
13. **658.** Aboriginal AMERICAN, from the Cave near Steubenville, Ohio. F. A. 79°. Dr. S. P. Hildreth.
14. **723.** Aboriginal AMERICAN, from the Cave near Steubenville, Ohio : woman, ætat. 40. I. C. 74. Dr. Hildreth.
15. **53.** INDIAN from a mound at Circleville, Ohio. F. A. 76°. I. C. 90. Dr. S. P. Hildreth. See *Crania Americana*, plate 51 and page 219.
16. **1287.** INDIAN skull from a mound at Chillicothe, Ohio. I. C. 90. Dr. E. H. Davis and Mr. Squier. 1846.
17. **1288.** INDIAN cranium. Found with the preceding. Man of 60. I. C. 86. Dr. E. H. Davis and Mr. E. G. Squier. 1846.
18. **736.** Infant INDIAN skull from a mound in Wisconsin. Mr. J. J. Libhart, of Columbia, Pennsylvania.
19. **992.** From a mound in Tennessee, at the junction of French, Broad and Holston rivers. I. C. 90. Dr. G. Troost. *Crania Americana*, plate 55.
20. **1270.** INDIAN cranium, thrown out in making the fortifications at Detroit, A. D. 1844. Woman, ætat. 40. From Lt. Meigs, U. S. Army.

21. **1271.** Skull of an INDIAN obtained from a mound about three miles from the mouth of Huron river, Ohio, by Mr. Charles W. Atwater: man, ætat. 60. See American Journal of Science, for July, 1846.
22. **1272.** Skull of a woman, ætat. 50. Found with the preceding.
23. **1455.** Skull flattened by art: man, ætat. 50. I. C. 70. Taken from a mound in Florida. From Dr. Isaac Hulse, U. S. N., from whom I also received the following memorandum, A. D. 1849:—
 “This skull was exhumed from a mound, the apex of which is about thirty feet above the ground in its vicinity. The locality is Baldwin county, Alabama, near Bear Point, on the west side of the Bay of Perdido, and about two or three miles north of the shore of the Gulf of Mexico. Near the apex of the mound there stood a live oak tree, supposed to be more than 100 years old. Near the foot of this live oak the party made their excavations, and a few feet below the surface they found the skull which I have had the happiness to place among your collection. The skull was covered with a hollow demi-sphere of pottery, composed of clay and shell, well burned. Upon the convex surface were sketched two whales, rather rudely, but sufficiently well to be recognizable.”
24. **1512.** Aboriginal AMERICAN; a very remarkable head, found by Dr. Davis and Mr. Squier in a mound in the Scioto Valley, Ohio, and described and figured by them in their “Ancient Monuments of the Mississippi Valley,” Pl. XLVII. and XLVIII. This is, perhaps, the most admirably-formed head of the American race hitherto discovered. It possesses the national characteristics in perfection, as seen in the elevated vertex, flattened occiput, great interparietal diameter, ponderous bony structure, salient nose, large jaws and broad face. It is the perfect type of Indian conformation, to which

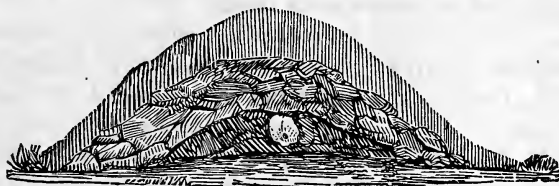


ABORIGINAL AMERICAN (1512).

the skulls of all the tribes from Cape Horn to Canada more or less approximate. Similar forms are common in the Peruvian tombs,

and have the occiput, as in this instance, so flattened and vertical as to give the idea of artificial compression ; yet this is only an exaggeration of the natural form, caused by the pressure of the *cradle-board* in common use among the American nations. F. A. 81°. I. C. 90. Dr. E. H. Davis and E. G. Squier, Esq., A. D. 1849.

"The circumstances," writes Mr. Squier, in the work above quoted, "under which this skull was found, are altogether so extraordinary as to merit a detailed account. It will be observed, from the map, that the mound above indicated is situated upon the summit of a high hill, overlooking the valley of the Scioto, about four miles below the city of Chillicothe. It is one of the most prominent and commanding positions in that section of country. Upon the summit of this hill rises a conical knoll, of so great regularity as almost to induce the belief that it is itself artificial. Upon the very apex of this knoll, and covered by the trees of the primitive forests, is the mound. It is about eight feet high, by forty or fifty feet base. The superstructure is a tough, yellow clay, which, at the depth of three feet, is mixed with large, rough stones ; as shown in the accompanying section.



"These stones rest upon a dry, calcareous deposit of buried earth and small stones, of a dark black color, and much compacted. This deposit is about two feet in thickness in the centre, and rests upon the original soil. In excavating the mound, a large plate of mica was discovered, placed upon the stones. * * * * * Immediately underneath this plate of mica, and in the centre of the buried deposit was found the skull figured [on the opposite page.] It was discovered resting upon its face. The lower jaw, as indeed the entire skeleton, excepting the clavicle, a few cervical vertebræ, and some of the bones of the feet, all of which were huddled around the skull, were wanting.

"From the entire singularity of this burial, it might be inferred that the deposit was a comparatively recent one ; but the fact that the various layers of carbonaceous earth, stones, and clay were entirely undisturbed, and in no degree intermixed, settles the question beyond doubt that the skull was placed where it was found at the time of the construction of the mound.

* * * * *

"This skull is wonderfully preserved ; unaccountably so, unless the circumstances under which it was found may be regarded as most favorable to such a result. The imperviousness of the mound to water, from the nature of the material composing it, and its position on the summit of an eminence, subsiding in every direction from its base, are circumstances

which, joined to the antiseptic qualities of the carbonaceous deposit enveloping the skull, may satisfactorily account for its excellent preservation." (See pp. 288-9.)

25. **417.** Chief of the CAYUGA tribe of Indians, State of New York, ætat. 70. F. A. 78°. I. C. 94. Dr. Z. Pitcher. See *Crania Americana*, plate 35 and page 192.
 26. **1041.** CHAYENNE Indian of Missouri. F. A. 73°. I. C. 73. Dr. B. B. Brown.
 27. **211.** MISSOURI Indian.
 28. **987.** CHEMESYAN Indian, from the N. W. coast of America : woman, ætat. 30. F. A. 78°. I. C. 93. Prof. Scouler, of Dublin.
 29. **22.** Young CHOCTAW female of Georgia. Dr. J. Hutchins.
 30. **39.** Indian of the EUCHEE tribe of Florida : man, ætat. 40. F. A. 75°. I. C. 84? Dr. Z. Pitcher. *Crania Americana*, plate 27 and page 174.
 31. **212.** Cast of a KENHAWHA skull.
 32. **27.** MASSASAUGA Indian, of Peterboro', Upper Canada : man, ætat. 30. F. A. 76°. I. C. 80. Rev. S. Wood, 1837.
 33. **455.** Indian of the MINGO tribe, Ohio. F. A. 77°. Dr. S. P. Hildreth.
 34. **213.** NAAS Indian from Fort Simpson, Washington Territory.
 35. **214.** NAAS Indian from Fort Simpson, Washington Territory.
- These two heads were presented by Dr. J. H. B. McClellan, May 5th, 1856.
36. **1219.** NANTICOKE? Indian, from the valley of Wyoming : woman, ætat. 80. I. C. 84. Mr. W. S. Vaux. 1844.
 37. **567.** NAUMKEAG Indian of Massachusetts : man, ætat. 40. F. A. 80°. I. C. 75. Dr. A. L. Pearson. *Crania Americana*, plate 33 and page 187.
 38. **33.** ONEIDA warrior, Iroquois confederacy. I. C. 95. Dr. B. Tappan. *Crania Americana*, plate 36 and page 193.
 39. **1036.** POCASSET Indian.
 40. **26.** QUINNIPIACK (Mohegan) Indian. I. C. 80. East Haven, Connecticut. Mr. E. C. Herrick.
 41. **1516.** SENECA Indian : man, ætat. 60. Exhumed from an old burying ground near Seneca Lake, New York. I. C. . Dr. Jas. Bryan, 1850.
 42. **1557.** INDIAN cranium from the banks of the Susquehanna river. From Dr. Alexander Janney, May, 1852.

43. **215.** ABORIGINAL cranium from South Carolina. F. A. 75°. From Dr. R. W. Gibbs, of Columbia, S. C., November, 1853.
44. **216.** INDIAN cranium from Gambel's Western collection. Presented by Dr. Wilson.
45. **217.** Fragment of cranium from the Grave Creek mound.
46. **218.** Fragments of cranium from a mound, with a portion of the os femoris.
47. **219.** Fragment of cranium from Tippecanoe battle-ground. Presented by Mr. L. H. Sands.
48. **220.** Cast of the skull of an INDIAN named Walk-in-the-water. Presented by Mr. Harlan.

b. CENTRAL AMERICANS.

(Case 8.)

1. **990.** MAYA Indian of Yucatan : man, ætat. 50. I. C. 91. Chevalier Friedrichthal, of Vienna.
2. **1050.** Fragments of the skull and other parts of the skeleton of a young aboriginal female, taken from an ancient tomb at Ticul, a ruined city near San Francisco, in Yucatan, A. D. 1842. From J. L. Stevens, Esq. Vide Incidents of Travel in Yucatan, vol. i.
3. **1067.** Fragments of cranial and other bones of three human skeletons, obtained by Mr. B. M. Norman from mounds in Yucatan. Vide Rambles in Yucatan, page 217.

c. SOUTH AMERICANS.

Araucanians.

1. **651.** ARAUCANIAN Indian (Arauco) of Chili : woman, ætat. 50. F. A. 73°. I. C. 73.
2. **652.** ARAUCANIAN Indian : woman, ætat. 50. F. A. 74°. I. C. 75.
3. **654.** Indian of the ARAUCO nation of Chili : woman, ætat. 30. F. A. 72°. I. C. 78. Crania Americana, plate 78 and page 241.
4. **655.** Indian of the ARAUCO nation : man, ætat. 30. F. A. 76°. I. C. 86. Crania Americana, plates 76, 77, and page 241.
5. **656.** ARAUCANIAN woman, ætat. 30. F. A. 76°. I. C. 76.

I received this and the four preceding skulls through the kindness of Dr. J. N. Casanova, of Valparaiso, who informed me that the three heads, Nos. 654, 655, 656, were taken from chiefs killed in an encounter with the Chilian army under General Bulnes, on the river Bio-Bio, in 1835. I took occasion, however, to intimate to Dr.

Casanova my suspicion that these were not *recent* crania, inasmuch as they had yet adhering to them some shreds of a peculiar mummy-cloth common in the old cemeteries of Peru and Chili, at the same time that they bore unequivocal evidences of long inhumation. Dr. Casanova, however, could not suppose that he had been deceived by his agent, and I therefore published the circumstances as related by him, and on his authority, in my *Crania Americana*, page 243. I may add that, judging from the size and conformation of the skull No. 654, I inferred that it had belonged not to a chief, as was supposed by Dr. C., but to a woman.

Subsequent examinations have satisfied me that my suspicions were well founded; and I am further confirmed in this belief by comparing these crania with the plates of a series obtained by the Naturalists of the *Astrolabe* from an ancient cemetery on the Bio-Bio river, near its confluence with the Moticha in Chili. It is sufficient to add that both collections of skulls were evidently obtained from the same place; and, although Dr. Casanova was misled as to particulars, the crania I received from him pertain to a veritable but ancient Araucanian tribe, and possess a great interest, both in regard to their sepulchral locality and their admirably developed characteristics. See *Voyage de l'Astrolabe: Anthropologie par le Dr. Dumoutier*, planche 27.

6. 995. ARAUCANIAN woman, ætat. 30. I. C. 77.

7. 997. ARAUCANIAN: man, ætat. 50. I. C. 77.

The two preceding Araucanian skulls from the interior of Arauco, were received from Dr. Thomas Page, of Valparaiso, in Chili.

8. 221. } Two ARAUCANIAN skulls in a fragmentary condition. Ob-

9. 222. } tained from a well on the premises of Mr. Keen, at Talcahuano. One of the heads was enclosed in an earthen, unglazed jar. Near it was found a peculiar lozenge-shaped stone. Presented by Dr. W. S. W. Ruschenberger, U. S. N., June 10th, 1856.

10. 223. ARAUCANIAN skull.

11. 224. ARAUCANIAN skull.

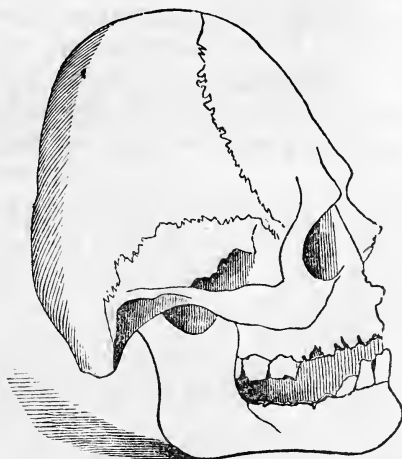
12. 120. Cast of an ARAUCANIAN skull.

From Mounds.

1. 1242. "INDIAN cranium from an ancient town called Chiuchiu, or Atacama Baja, situated on the river Loa, at the eastern edge of the Desert of Atacama, eight leagues from Calamo, and 57 from the Pacific Ocean. Here are extensive remains of Indian houses, and a fortress built of mud, and loop-holed. The *huaco* or burial place

is along a terrace of soft sandstone, and the bodies are buried in the *sitting posture*."

From Dr. John Houston, of Valparaiso, who obtained this and the following skull and presented them with the above memorandum :



INDIAN Cranium (1242).

2. **1243.** INDIAN cranium, found with the preceding.

Both these heads are elongated upwards in the sugar-loaf form, by pressure applied both back and front. See *Crania Americana*, page 116; *Proceedings of the Academy of Natural Sciences*, for December, 1845, and *American Journal of Science and Arts*, for July, 1846.

For original sources of information on these singular artificial modifications of the form of the cranium, see CIEZA, *Chronica del Peru*, cap. XXVI, and TORQUEMADA, *Monarquia Indiana*, T. II. p. 581. Fol. Madrid, 1723.

Charibs.

1. **638.** Skull of a CHARIB of Venezuela, flattened by art : found in a terra cotta vase, with the os sacrum and some small bones. Man, ætat. 40? F. A. 70°. From Ex-President Vargas, of Caraccas. *Crania Americana*, plate 64 and page 237.
2. **692.** Skull of a CHARIB of the Antilles, obtained in the island of Nassau by the late Rev. Thomas Leaver, for several years a missionary there. He presented the cranium to Dr. Thomas C. Dunn, of

Newport, Rhode Island, by whom it was added to the present collection, A. D. 1849. Man, ætat. 30. I. C. 89.

3. **225.** Cast of a CHARIB skull.

Patagonians.

1. **1357.** Cast of the skull of a PATAGONIAN. Prof. Retzius.
2. **1359.** Cast of the head of a PUELCHÉ girl of Patagonia. Prof. Retzius.
3. **226.** Cast of a PATAGONIAN skull. Presented by Mr. Harlan.

Brazilians.

1. **1254.** Skull of a TAPUYO Indian of Brazil.
2. **1513.** Head of a BRAZILIAN Indian, artificially preserved with false eyes, &c. : woman, ætat. 60. I. C. 75. From the interior of Brazil. Mr. Henry Bond Dewey, of Para, A. D. 1850.
Vide Blumenbach, *Decades Craniorum*, tab. xlvii.
3. **1528.** Desiccated head of a BRAZILIAN Indian, from the head waters of the Tapajos river, a tributary of the Amazon : woman, ætat. 30. I. C. 69. Amory Edwards, Esq., of New York, 1851.
4. **1529.** BRAZILIAN Indian, prepared like the last and obtained with it : man ætat. 70. I. C. 76. Amory Edwards, Esq., 1851.
No. 1513 has probably been obtained from this aboriginal cemetery, and no doubt pertains to the same tribe.
5. **1530.** GUAYCURU Indian of Brazil : girl. ætat. 13. Died at Beunos Ayres in the professional care of Dr. Kennedy, who presented me the skull, A. D. 1851.
6. **1555.** } GENTOO Indians : two prepared heads from the Purus
7. **1556.** } river, a tributary of the Amazon. Presented by Mr. Amory Edwards, March, 1852. I. C.

II. TOLTECAN RACE.

a. PERUVIAN FAMILY.

From Arica.

(Case 9.)

1. **67.** Ancient PERUVIAN from Arica : man, ætat. 40. F. A. 730. I. C. 86. Dr. Ruschenberger. See *Crania Americana*, plate 4 and page 108.
2. **496.** PERUVIAN child of five years, from Arica : artificially elongated. *Crania Americana*, plate 2.

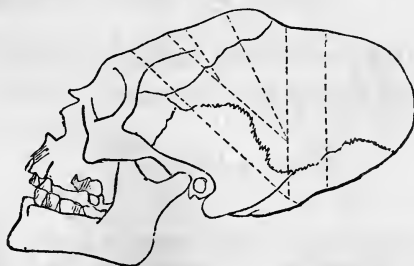
3. **1045.** Ancient PERUVIAN head, artificially elongated : woman, ætat. 30. F. A. 68°. I. C. 77. From Arica. Dr. P. B. Goddard. See *Crania Americana*, plate 3.

The following highly interesting series of crania, ten in number, (1275 to 1284, inclusive,) was sent me by my friend William A. Foster, Esq., now of Lima, who obtained them from the celebrated Peruvian cemetery at Arica. "This cemetery," he observes, "lies on the face of a sand-hill, sloping towards the sea. The extent of surface occupied by these tombs, as far as we explored, I should say was five or six acres. In many of the tombs three or four bodies were found clustered together, always in the *sitting posture*, and wrapped in three or four thicknesses of cloth, and a mat thrown over all. Each one has about the person a pouch or bag, an ear or two of maize, fruit of some kind, and not unfrequently a drinking vessel." Lima, December 17, 1845.

See Proceedings of the Academy of Natural Sciences, for April, 1846 ; and American Journal of Science, for July, 1846.

4. **1275.** Cranium of a child, partially compressed and elongated.
 5. **1276.** Cranium of a child about four years old : natural form.
 6. **1277.** Skull of a man, ætat. 65, remarkably altered by art into the elongated, symmetrical form. I. C. 69.

The annexed wood-cut shows the course of the bandages used in obtaining this singular modification of the cranium. The forehead was pressed downwards and backwards by a compress probably of folded cloth. To keep it in its place, a bandage was carried over it from the base of the occiput and thence across the forehead. To confine the lateral portions of the skull, and in order to produce



PERUVIAN skull (1277).

the symmetrically elongated form, the same bandage was continued over the top of the head, immediately behind the coronal suture, probably with an intervening compress ; and the bandaging was

- repeated upon these parts until they were immovably confined in the desired position; thus permitting the head to expand only in the posterior direction. See my *Illustrated System of Human Anatomy*, p. 90.
7. **1278.** Skull of a man, ætat. 50, of similar form to the preceding, but in less degree. I. C. 85.
 8. **1279.** Man, of the same configuration as 1277: ætat. 40. I. C. 87.
 9. **1280.** PERUVIAN, conformation same as the last: woman, ætat. 50. I. C. 70.
 10. **1281.** PERUVIAN skull moulded in the same manner as the last: woman, ætat. 20.
 11. **1282.** PERUVIAN head, same form as the preceding: ætat. 50. I. C. 87.
 12. **1283.** PERUVIAN head, same form as the preceding: man, ætat. 65. I. C. 75.
 13. **1284.** PERUVIAN, same form as the preceding, but wants the face. The following six crania were obtained at the ancient Peruvian cemetery at Arica, by my friend and former pupil Dr. S. J. Oakford, A. D. 1847.
 14. **1363.** PERUVIAN skull from the cemetery at Arica: man, ætat. 70. Artificially elongated and symmetrical. I. C. 71.
 15. **1364.** Female PERUVIAN cranium from Arica; elongated by art. Ætat. 60. I. C. 74.
 16. **1365.** Elongated skull of a PERUVIAN: man, ætat. 50. I. C. 76. From Arica.
 17. **1366.** PERUVIAN, artificially elongated: man, ætat. 70. I. C. 101. From Arica.
 18. **1367.** Elongated PERUVIAN skull from Arica: man, ætat. 40. I. C. 76.
 19. **1368.** PERUVIAN female head, artificially elongated: ætat. 60. I. C. 78. From Arica.
 20. **227.** PERUVIAN from Arica (?)

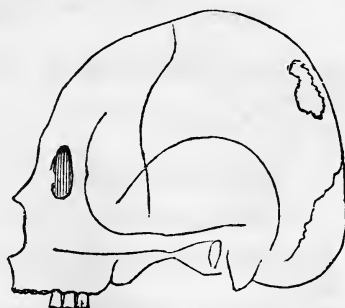
From Pachacamac.

(Cases 9-10.)

1. **13.** Ancient PERUVIAN, Pachacamac: man, ætat. 60. I. C. 83. W. A. Foster, Esq.
2. **30.** Ancient PERUVIAN, Pachacamac: woman, ætat. 25. I. C. 78. W. A. Foster, Esq.
3. **75.** PERUVIAN from Pachacamac, or the Temple of the Sun, near Lima: woman, ætat. 60. F. A. 72°. I. C. 87. Dr. Ruschen-

berger. No one was permitted to be buried in this sanctuary but the families of priests, nobles and other persons of distinction. See *Herrera, Hist. Lib. vi. Dec. 5*, and *Crania Americana*, page 132.

4. **76.** PERUVIAN from Pachacamac. F. A. 73°. I. C. 62. Dr. Ruschenberger.
 5. **77.** PERUVIAN from Pachacamac : man, ætat. 50. F. A. 75°. I. C. 76.
 6. **84.** PERUVIAN from Pachacamac. I. C. 75. W. A. Foster, Esq.
 7. **85.** PERUVIAN from Pachacamac : man, ætat. 40. F. A. 80°. I. C. 76. See *Crania Americana*, plate 11 B, and page 129.
 8. **86.** PERUVIAN from Pachacamac : man, ætat. 40. F. A. 81°. I. C. 88. See *Crania Americana*, plate 11 and page 127.
 9. **87.** PERUVIAN from Pachacamac. F. A. 75°. I. C. 73. See *Crania Americana*, plates 8 and 9, and page 125.
 10. **90.** PERUVIAN from Pachacamac : woman, ætat. 30. F. A. 75°. I. C. 71.
 11. **92.** PERUVIAN from Pachacamac : man, ætat. 60. I. C. 75.
 12. **93.** PERUVIAN from Pachacamac : woman, ætat. 40. F. A. 79°. I. C. 79.
- Nos. 85, 86, 87, 90, 92 and 93 from Dr. Ruschenberger.
13. **95.** PERUVIAN from Pachacamac : man, ætat. 60. F. A. 80°. I. C. 91. Dr. Ruschenberger. See *Crania Americana*, plate 11 A, and page 127.
 14. **96.** PERUVIAN from Pachacamac : woman, ætat. 40. F. A. 73°. I. C. 80.
 15. **97.** PERUVIAN from Pachacamac : man, ætat. 50. F. A. 75°. I. C. 77. See *Crania Americana*, plate 11 D, and page 131.



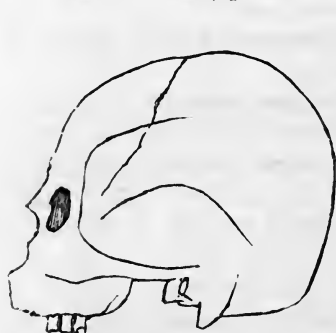
PERUVIAN (97).

16. **99.** PERUVIAN child of three years. Pachacamac.
17. **100.** PERUVIAN from Pachacamac : woman, ætat. 40. F. A. 70°. I. C. 67.

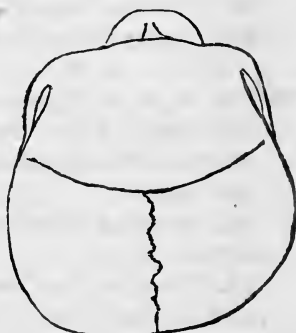
18. **108.** PERUVIAN from Pachacamac.
 19. **400.** PERUVIAN from Pachacamac: woman, ætat. 50. F. A. 76°. I. C. 75.
 20. **402.** PERUVIAN from Pachacamac: woman, ætat. 50. F. A. 77°. I. C. 78.
 21. **403.** PERUVIAN from Pachacamac: woman, ætat. 30. F. A. 74°. I. C. 77.
 22. **404.** PERUVIAN from Pachacamac: child of five years.
 23. **405.** PERUVIAN from Pachacamac. F. A. 75°. I. C. 70.
 24. **406.** PERUVIAN from Pachacamac: woman, ætat. 30. F. A. 76°. I. C. 76.

Nos. 402 to 406, inclusive, from Dr. Ruschenberger.

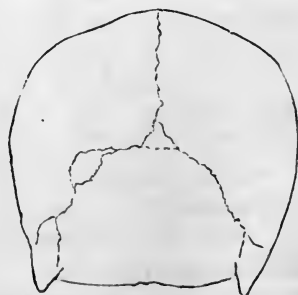
25. **409.** PERUVIAN from Pachacamac: woman, ætat. 70. I. C. 82. W. A. Foster, Esq.
 26. **446.** PERUVIAN from Pachacamac. F. A. 80°. I. C. 75. *Crania Americana*, plate 11 C, and page 130.



Lateral view.



Coronal view.



Posterior view.

27. **450.** PERUVIAN from Pachacamac: woman, ætat. 50. F. A. 75°. I. C. 77.

Nos. 446 and 450 from Dr. Ruschenberger.

28. **453.** PERUVIAN child. Pachacamac.
29. **541.** PERUVIAN from Pachacamac : man, ætat. 55. I. C. 80.
30. **562.** PERUVIAN from Pachacamac : man, ætat. 40. I. C. 79.
31. **568.** PERUVIAN of Pachacamac.
32. **570.** PERUVIAN of Pachacamac : woman, ætat. 30. I. C. 69.
33. **571.** PERUVIAN from Pachacamac : woman, ætat. 35. I. C. 75.
34. **631.** PERUVIAN from Pachacamac : woman, ætat. 35. I. C. 68.
35. **642.** PERUVIAN from Pachacamac : man, ætat. 40. I. C. 73.
36. **685.** PERUVIAN from Pachacamac : man, ætat. 35. I. C. 78.
37. **686.** PERUVIAN from Pachacamac : man, ætat. 40. I. C. 70.
38. **687.** PERUVIAN from Pachacamac : man, ætat. 30. I. C. 71.
39. **688.** PERUVIAN from Pachacamac : woman, ætat. 50. I. C. 58.
40. **696.** PERUVIAN from Pachacamac : woman, ætat. 30. I. C. 68.

The preceding 13 skulls, Nos. 453 to 696, inclusive, are from W. A. Foster, Esq.

41. **697.** Ancient PERUVIAN from Pachacamac : man, ætat. 50. F. A. 73°. I. C. 74. Dr. Ruschenberger.
42. **699.** Ancient PERUVIAN from Pachacamac : woman, ætat. 40. F. A. 74. I. C. 76. Dr. Ruschenberger.
43. **750.** PERUVIAN from Pachacamac : man, ætat. 40. I. C. 69. W. A. Foster, Esq.
44. **752.** PERUVIAN from Pachacamac : woman, ætat. 60. I. C. 67.
45. **947.** PERUVIAN child from Pachacamac : ætat. 4. Mr. Foster.
46. **1042.** PERUVIAN child from Pachacamac : ætat. 6.
47. **1059.** PERUVIAN child from Pachacamac : ætat. 2. W. A. Foster, Esq.
48. **1104.** PERUVIAN child from Pachacamac : ætat. 8. W. A. Foster, Esq.
49. **1225.** PERUVIAN of Pachacamac : man, ætat. 50. I. C. 85.
50. **1232.** PERUVIAN of Pachacamac : woman, ætat. 80. I. C. 68.
51. **1241.** PERUVIAN of Pachacamac : man, ætat. 60. I. C. 67.
52. **1453.** PERUVIAN child from Pachacamac : ætat. 9 years.

For the following series of Peruvian skulls, 1456 to 1509, I am indebted to my friend Wm. A. Foster, Esq.

53. **1456.** PERUVIAN. Pachacamac : man, ætat. 70. I. C. 79. The atlas is anchylosed to the occiput.
54. **1457.** PERUVIAN. Pachacamac. Remarkable for the number of ossa triquetra. Girl of 16. I. C. 69.
55. **1458.** PERUVIAN. Pachacamac : woman, ætat. 25. I. C. 67.
56. **1459.** PERUVIAN. Pachacamac : man, ætat. 60. I. C. 68.
57. **1460.** PERUVIAN. Pachacamac : woman, ætat. 40.

58. **1461.** PERUVIAN. Pachacamac : woman, ætat. 80. I. C. 64.
59. **1462.** PERUVIAN. Pachacamac : woman, ætat. 45. I. C. 75.
60. **1463.** PERUVIAN child of four years. Pachacamac.
61. **1464.** PERUVIAN. Pachacamac : woman, ætat. 60. I. C. 64.
62. **1465.** PERUVIAN. Pachacamac : woman, ætat. 35. I. C. 66.
63. **1466.** PERUVIAN child of five years. Pachacamac.
64. **1467.** PERUVIAN child of four years. Remarkable for the fulness of the occipital region. Pachacamac.
65. **1468.** PERUVIAN child of eight years. Pachacamac.
66. **1469.** PERUVIAN child of eight years. Pachacamac.
67. **1470.** PERUVIAN. Pachacamac : man, ætat. 50. I. C. 82.
68. **1471.** PERUVIAN. Pachacamac : woman. I. C. 72.
69. **1472.** PERUVIAN : man, ætat. 60. I. C. 77.
70. **1473.** PERUVIAN. Pachacamac : man, ætat. 55. I. C. 83.
71. **1474.** PERUVIAN. Pachacamac : man, ætat. 50. I. C. 86.
72. **1475.** PERUVIAN : man, ætat. 60. I. C. 81. Pachacamac.
73. **1476.** PERUVIAN. Pachacamac : woman, ætat. 70.
74. **1477.** PERUVIAN. Pachacamac : woman, ætat. 60. I. C. 74.
75. **1478.** PERUVIAN. Pachacamac : man, ætat. 40. I. C. 83.
76. **1479.** PERUVIAN. Pachacamac.
77. **1480.** PERUVIAN : woman, ætat. 16. I. C. 78. Pachacamac.
78. **1481.** PERUVIAN : man, ætat. 80. I. C. 81. Pachacamac.
79. **1482.** PERUVIAN : man, ætat. 50. I. C. 82. Pachacamac.
80. **1483.** PERUVIAN. Pachacamac : man, ætat. 40.
81. **1489.** PERUVIAN : woman, ætat. 16. I. C. 77. Pachacamac.
82. **1490.** PERUVIAN : man, ætat. 80. I. C. 78. Pachacamac.
83. **1491.** PERUVIAN. Pachacamac : woman, ætat. 70. I. C. 77.
84. **1492.** PERUVIAN child of six years. Pachacamac.
85. **1493.** PERUVIAN child of twelve years. Pachacamac.
86. **1494.** PERUVIAN : woman, ætat. 16. I. C. 69. Pachacamac.
87. **1495.** PERUVIAN : man, ætat. 50. I. C. 73. Pachacamac.
88. **1496.** PERUVIAN from Pachacamac : man, ætat. 40. I. C. 75.
89. **1497.** PERUVIAN child of four years. Pachacamac.
90. **1498.** PERUVIAN. Pachacamac : woman, ætat. 40.
91. **1499.** PERUVIAN. Pachacamac : man, ætat. 45. I. C. 75.
92. **1500.** PERUVIAN. Pachacamac : woman, ætat. 60. I. C. 69.
93. **1501.** PERUVIAN. Pachacamac : man, ætat. 60. I. C. 74.
94. **1502.** PERUVIAN. Pachacamac : woman, ætat. 30. I. C. 83.
95. **1503.** PERUVIAN. Pachacamac : woman, ætat. 45. I. C. 70.
96. **1504.** PERUVIAN. Pachacamac : man, ætat. 70. I. C. 77.
97. **1505.** PERUVIAN. Pachacamac : woman, ætat. 70.

- 98. **1506.** PERUVIAN. Pachacamac : man, ætat. 40. I. C. 66.
- 99. **1507.** PERUVIAN. Pachacamac : woman, ætat. 20. I. C. 75.
- 100. **1508.** PERUVIAN. Pachacamac : woman, ætat. 50. I. C. 72.
- 101. **1509.** PERUVIAN. Pachacamac : man, ætat. 70. I. C. 76.
- 102. **228.** PERUVIAN. Pachacamac.
- 103. **229.** PERUVIAN. Pachacamac.
- 104. **230.** PERUVIAN. Pachacamac.

The three preceding skulls were found on the side of a hill two miles south of the Temple of the Sun, July, 1845.

From Pisco.

(Cases 10-11.)

- 1. **38.** PERUVIAN from the ancient cemetery at Pisco.
- 2. **72.** Ancient PERUVIAN from Pisco : man, ætat. 50. I. C. 83.
- 3. **445.** Ancient PERUVIAN from Pisco.
- 4. **497.** PERUVIAN from the ancient cemetery at Pisco : woman, ætat. 16. I. C. 62.
- 5. **498.** PERUVIAN from Pisco : woman, ætat. 50. I. C. 63.
- 6. **630.** PERUVIAN child from the ancient cemetery at Pisco.
- 7. **996.** PERUVIAN from the ancient cemetery at Pisco : woman, ætat. 60. I. C. 84.
- 8. **1048.** PERUVIAN from the ancient cemetery at Pisco.
- 9. **1061.** PERUVIAN from Pisco : woman, ætat. 50. I. C. 66.
- 10. **1221.** Ancient PERUVIAN : man, ætat. 60. I. C. 82. From the Huacas of Pisco.
- 11. **1269.** PERUVIAN from the ancient cemetery at Pisco : woman, ætat. 60. I. C. 72.
- 12. **1326.** PERUVIAN from the ancient cemetery at Pisco : man, ætat. 50. I. C. 75.

Nos. 38 to 1326, inclusive, from W. A. Foster, Esq.

- 13. **1369.** PERUVIAN from the Huacas of Pisco : woman, ætat. 80. I. C. 71.
- 14. **1370.** Ancient PERUVIAN from Pisco : man, ætat. 60. I. C. 80.
- 15. **1371.** Ancient PERUVIAN from Pisco : man, ætat. 60. I. C. 77.
- 16. **1372.** Ancient PERUVIAN from Pisco : woman, ætat. 40.
- 17. **1373.** Ancient PERUVIAN from Pisco : man, ætat. 60. I. C. 77.
- 18. **1374.** Ancient PERUVIAN from Pisco; forehead compressed : man, ætat. 50. I. C. 74.
- 19. **1375.** PERUVIAN child of six years old. Pisco.
- 20. **1376.** PERUVIAN child eight years of age. Head elongated in the upward direction. Pisco.

21. **1406.** PERUVIAN from Pisco : man, ætat. 35. I. C. 72.
22. **1407.** PERUVIAN from Pisco : man, ætat. 60. I. C. 77.
23. **1408.** PERUVIAN from Pisco : man, ætat. 45. I. C. 81.
24. **1409.** PERUVIAN from Pisco : woman, ætat. 25. I. C. 70.
25. **1410.** PERUVIAN from Pisco : man, ætat. 40. I. C. 73.
26. **1411.** PERUVIAN from Pisco : man, ætat. 50. I. C. 89.
27. **1412.** PERUVIAN from Pisco : man, ætat. 70. I. C. 88.
28. **1413.** PERUVIAN from Pisco : man, ætat. 60.
29. **1414.** PERUVIAN from Pisco.
30. **1415.** PERUVIAN from Pisco : child of twelve years.
31. **1416.** PERUVIAN from Pisco : man, ætat. 50. I. C. 73.
32. **1417.** PERUVIAN from Pisco : man, ætat. 70. I. C. 79.
33. **1418.** PERUVIAN from Pisco : woman, ætat. 50. I. C. 64.
34. **1419.** PERUVIAN from Pisco : woman, ætat. 25. I. C. 62.
35. **1420.** PERUVIAN from Pisco ; conical form : man, ætat. 55. I. C. 76.
36. **1421.** PERUVIAN from Pisco : man, ætat. 50. I. C. 81.
37. **1422.** PERUVIAN from Pisco : woman, ætat. 80. I. C. 77. Atlas anchylosed to the cranium. See also Nos. 1263 and 1456.
38. **1423.** PERUVIAN from Pisco : child of two years.
39. **1424.** PERUVIAN from Pisco : man, ætat. 70. I. C. 60. Skull compressed, with frontal suture.
40. **1425.** PERUVIAN from Pisco : ætat. 40. I. C. 72. Much compressed.
41. **1426.** PERUVIAN from Pisco : man, ætat 60. I. C. 85. Conical form.
42. **1427.** PERUVIAN from Pisco : man, ætat. 70. I. C. 77. Conical form.
43. **1428.** PERUVIAN from Pisco : man, ætat. 40.
44. **1429.** PERUVIAN from Pisco : woman, ætat. 70. I. C. 71.
45. **1430.** PERUVIAN from Pisco : a child of 8 years. Head compressed.
46. **1431.** PERUVIAN from Pisco : boy, ætat. 17. I. C. 66. Conical form.
47. **1432.** PERUVIAN from Pisco : woman, ætat. 35. I. C. 74. Conical form.
48. **1433.** PERUVIAN from Pisco : child of seven years.
49. **1434.** PERUVIAN from Pisco : woman, ætat. 40. I. C. 75. Much compressed.
50. **1435.** PERUVIAN from Pisco : woman, ætat. 60. I. C. 66. Conical form.

51. **1436.** PERUVIAN from Pisco : man, ætat. 50. I. C. 76. Strongly resembles a Malay skull.
52. **1437.** PERUVIAN from Pisco : woman, ætat. 70. I. C. 74.
53. **1438.** PERUVIAN from Pisco : woman, ætat. 55. I. C. 72.
54. **1439.** PERUVIAN from Pisco : woman, ætat. 50. I. C. 69.
55. **1440.** PERUVIAN from Pisco : man, ætat. 60. I. C. 84.
56. **1441.** PERUVIAN from Pisco : child of 8 years. Conical form.
57. **1442.** PERUVIAN from Pisco : woman ætat. 35. I. C. 72.
58. **1443.** PERUVIAN from Pisco : man, ætat. 50. I. C. 73.
59. **1444.** PERUVIAN from Pisco : woman, ætat. 40. I. C. 66.
60. **1445.** PERUVIAN from Pisco : woman, ætat. 80.

For the preceding series of Peruvian crania from Pisco, I am indebted to my friend Wm. A. Foster, Esq., formerly of this city, and now a resident of Lima, who accompanied them with the following memorandum :—

“These skulls were all collected from the surface of three or four *huacas* (tumuli) within a short distance, perhaps a couple of miles, of each other, having been disturbed and left lying there by previous diggers; that is, by the common people of the country, who are full of notions about buried treasure. All the *huacas* I saw were evidently those of the poorer classes.

“The whole country around Pisco is covered with Indian remains. It is a rich valley, with a small stream running through it, and has every appearance of having been thickly populated and well and extensively cultivated.”

61. **1484.** PERUVIAN from Pisco : man, ætat. 50.
62. **1485.** PERUVIAN from Pisco : woman, ætat. 40.

From Santa.

(Case 11.)

1. **71.** PERUVIAN child from Santa. Dr. Waters Smith, U. S. Navy.
2. **73.** PERUVIAN from a mound near Santa : woman, ætat. 40. F. A. 71°. I. C. 75. Dr. Waters Smith, U. S. Navy. See *Crania Americana*, plate 56 and page 225.
3. **79.** PERUVIAN from Santa : man, ætat. 30. F. A. 74°. I. C. 76.
4. **81.** PERUVIAN from Santa : woman, ætat. 40. F. A. 76°. I. C. 77.
5. **82.** PERUVIAN from Santa : woman, ætat. 60. F. A. 79°. I. C. 76.

Nos. 79, 81 and 82 from Dr. Ruschenberger.

6. **449.** PERUVIAN from Santa : man, ætat. 60. F. A. 77°. I. C. 88.
7. **569.** PERUVIAN child of 8 years, from Santa. Dr. Ruschenberger.
8. **109.** PERUVIAN from Santa.

From Lima.

1. **68.** PERUVIAN from a tumulus near Lima : man, ætat. 40. F. A. 74°. I. C. 90. Dr. H. S. Rennolds, U. S. Navy.
2. **91.** PERUVIAN from Chorillos, near Lima : woman, ætat. 60. F. A. 75°. I. C. 66. Dr. Ruschenberger.
3. **412.** PERUVIAN from a tumulus at Rimac, near Lima : woman, ætat. 60. F. A. 74°. I. C. 79. Dr. H. S. Rennolds, U. S. N. See *Crania Americana*, plate 57 and page 226.
4. **414.** PERUVIAN, the os frontis flattened by art. From a tumulus at Rimac, near Lima. F. A. 72°. I. C. 81. Dr. H. S. Rennolds, U. S. N. See *Crania Americana*, plate 57 and page 226.
5. **452.** PERUVIAN from near Lima : man, ætat. 30. F. A. 69°. I. C. 83. From Dr. Ruschenberger.
6. **576.** PERUVIAN from a mound near Lima. I. C. 72. Dr. H. S. Rennolds, U. S. N.
7. **231.** PERUVIAN from an Indian tumulus in the valley of Lima, near Magdalena, June, 1845.

Miscellaneous.

(*Case 11.*)

1. **11.** Ancient CHIMUYAN from the ruined city near Truxillo, in Peru : woman, ætat. 40. I. C. 71. Dr. M. Burrough. See *Crania Americana*, plate 6 and page 112.
2. **451.** PERUVIAN : woman, ætat. 30. F. A. 78°. I. C. 87.
3. **637.** QUICHUA Indian of Upper Peru : man, ætat. 40. F. A. 70c. I. C. 82. Ex-President Vargas.
4. **1348.** PERUVIAN skull, artificially elongated upwards and backwards : man, ætat. 50. I. C. 66. Dr. Dickeson.
5. **1517.** PERUVIAN child of 8 years. Payta. Dr. S. J. Oakford. 1850.
6. **1518.** PERUVIAN : man, ætat. 50. I. C. —. From a mound in the province of Payta. Dr. S. J. Oakford. 1850.
7. **113.** PERUVIAN of the Inca race.
8. **232.** PERUVIAN. Atacames.
9. **1046.** PERUVIAN from an ancient cemetery at Guamay. I. C. 74. Dr. Paul Swift. 1843.

1. **447.** PERUVIAN from near Callao : woman, ætat. 40. F. A. 74°. I. C. 76.
2. **448.** PERUVIAN from near Callao : woman, ætat. 40. F. A. 74°. I. C. 73.

Nos. 447 and 448 from Dr. Ruschenberger.

3. **233.** PERUVIAN from vaults at Callao Fort, May, 1845.
1. **710.** Cast of an elongated PERUVIAN skull. Dr. O. S. Fowler.
2. **711.** Cast of another ancient PERUVIAN skull. Dr. O. S. Fowler.
3. **700.** Cast of the head of an ancient PERUVIAN, from a tomb on the Island of Titicaca, in Bolivia. *Crania Americana*, page 97, &c.
4. **701.** Cast of an ancient PERUVIAN skull, from a tomb on the Island of Titicaca.
5. **702.** Cast of a skull found with the preceding.
6. **703.** Cast of a skull taken by Mr. Pentland from an ancient tomb at Coracolla, latitude 17° 38' south.
7. **704.** Cast of a skull of the ancient PERUVIAN race, taken from the tombs between Pometé and Chimgaugé, by Mr. Pentland.
8. **705.** Cast of a skull taken by Mr. Pentland from a large tomb in the Island of Titicaca. See *Crania Americana*, page 97, and *Journal of the Academy of Natural Sciences*, vol. viii. See also my *Distinctive Characteristics of the Aboriginal Race of America*, p. 7, 41, and M. D'Orbigny, *L'Homme Americain*, planche 2.

b. MEXICAN FAMILY.

(Case 12.)

1. **34.** MEXICAN Indian of the Tlahuica tribe : woman, ætat. 40. F. A. 76°. I. C. 84. W. Maclure, Esq., 1836. The following is a copy of Mr. Maclure's note to me :—
 "The skull of an Indian from Acapancingo, eighteen leagues south of Mexico, and a league and a half from Cuernavaca, State of Mexico." See *Clavigero's Hist. of Mexico*, *Cullen's Trans.*, vol. i. p. 7 ; and *Crania Americana*, plate 18 A, and page 156.
1. **734.** Skull of an ancient Mexican, of the AZTEC? nation ; exhumed near the Indian village of Guahapan, on the mountain Popocatepetl. Man, ætat. 40. I. C. 85. Dr. J. Macartney, of Mexico.
2. **735.** AZTEC? found with the preceding. Woman, ætat. 40. I. C. 76. Dr. Macartney.

1. **714.** MEXICAN Indian from an ancient cemetery at Otumba : man, ætat. 40. I. C. 90. *Crania Americana*, plate 61 and page 233.
2. **715.** MEXICAN Indian from Otumba : woman, ætat. 20. I. C. 77. *Crania Americana*, plate 59 and page 231.
3. **716.** MEXICAN Indian from Otumba : woman, ætat. 30. F. A. 77°. I. C. 81. *Crania Americana*, plate 60 and page 232.

1. **717.** Ancient MEXICAN from Tacuba : man, ætat. 50. I. C. 80.
2. **718.** Ancient MEXICAN from Tacuba : man, ætat. 40. I. C. 81.
3. **719.** MEXICAN Indian from near the city of Mexico. I. C. 92.
4. **720.** Ancient MEXICAN from Tacuba : woman, ætat. 60. I. C. 84?

The preceding seven skulls, 714 to 720, inclusive, were transmitted to me by the late William Maclure, Esq., with the following note :

“Skulls obtained by Mr. Joseph Smith from the ancient tombs of Tacuba and Otumba, for Dr. Morton, May, 1, 1839.”

1. **1323.** The skull of Vicente Rivaz, an Otomie Cazique of the pure MEXICAN race, born and died in the village of San Pedro Flacoapan, in the department of Tula, 20 leagues from the city of Mexico. He lived to be 80 years of age, and was remarkable for his literary attainments and amiable disposition. Sent me by Senor Don Jose Gomez de la Catina, of the city of Mexico, A. D. 1848, through Dr. Henderson, U. S. A. I. C. 72.
2. **1000.** Ancient MEXICAN. Otomie nation : man, ætat. 50. From a mound near Ajacuba. F. A. 80°. I. C. 92.
3. **1001.** Ancient MEXICAN. Otomie nation : woman, ætat. 30. From the same place. F. A. 75°. I. C. 67.
4. **1002.** Ancient MEXICAN. Otomie nation : woman, ætat. 40. From a mound near the village of Doxey. F. A. 73°. I. C. 76.
5. **1003.** Ancient MEXICAN. Otomie nation : man, ætat. 18. From a mound near the Sierra de Zumpanga. F. A. 70°. I. C. 76.
1. **1004.** Ancient MEXICAN. Tlascalan nation : man, ætat. 40. From a mound in the suburbs of Tlascala. F. A. 75°. I. C. 84.
1. **1005.** Ancient MEXICAN. Chechemecan nation : woman, ætat. 30. From a mound at Tezeuco. F. A. 75°. I. C. 83.

The six preceding crania were obtained and presented by Don J. Gomez de la Cortina, of the city of Mexico, through Mr. W.

Augustus Twigg. See Proceedings of the Academy of Natural Sciences for July, 1841.

1. **1226.** Ancient MEXICAN skull, from the cemetery of Santiago de Tlatilolco, near the city of Mexico, in which many thousands of the natives were interred after the brave defence of their city against Cortes. I. C. 79.5. From his Excellency the Baron von Gerolt, A. D. 1845. See Proceedings of the Academy of Natural Sciences for July, 1845.
1. **681.** MEXICAN Indian of the Pames tribe, from San Lorenzo, near the capital: woman, ætat. 50. F. A. 77°. I. C. 78. *Crania Americana*, plate 17 A, and page 154.
2. **1313.** PAMES MEXICAN: woman, ætat. 30. I. C. 81. From the village of San Lorenzo, near the city of Mexico. W. S. Parrott, Esq.
1. **1314.** Ancient MEXICAN chief, exhumed, together with various aboriginal arms and utensils, from the Cerro de Quesilas, near the city of Mexico, and brought from thence by the Hon. J. R. Poinsett, U. S. Minister to Mexico. F. A. 72°. I. C. 86. See *Crania Americana*, plate 14 and page 152.
2. **682.** MEXICAN Indian: man, ætat. 40. F. A. 80°. I. C. 91. *Crania Americana*, plate 17 and page 153. In that work, table 1, page 257, this skull is erroneously referred to No. 559.
3. **234.** Skull said to be taken from under the vast Altar of Sacrifices at Mexico. Presented by Dr. E. H. Barton, of N. Orleans.
1. **1353.** Cast of a singularly deformed MEXICAN skull. Prof. Andreas Retzius, of Stockholm.
1. **1566.** INDIAN cranium. Pimos village, Mexico. Presented by Dr. Heermann, August, 1854. F. A. 78°. I. C. —.
1. **1345.** Skull of a chief of the LIPAN tribe of Indians, killed in a skirmish with Col. Doniphan's legion, on the 5th of May, 1847, at Poyo, near Parsos, in New Mexico. Man, ætat. 40. I. C. 84. This skull was procured and presented by Dr. A. Wislizenus, of St. Louis, Missouri.
2. **1346.** Skull, supposed to be of an ancient tribe of LIPAN Indians, from the celebrated sepulchral cavern of Bolson de Massimi, be-

tween San Sebastian and San Lorezo, in the State of Durango, New Mexico. Man, ætat. 50. I. C. 99. Obtained and presented by Dr. A. Wislizenus, of St. Louis, Missouri, A. D. 1847.

1. **1515.** Modern MEXICAN Indian: man (?) ætat. 30. I. C. 78. Brought from Peroté, A. D. 1847, by Capt. G. W. Smith, U. S. Army, and presented by Dr. J. H. B. McClellan.
 2. **1347.** Head of a young MEXICAN sergeant, killed at the battle of Buena Vista, in New Mexico, May, 1847. An example of natural desiccation. Dr. R. S. Holmes, U. S. A.
 3. **555.** MEXICAN soldier, ætat. 40, with three cicatrized gunshot wounds through the right parietal bone. Slain at the battle of San Jacinto, in Texas, A. D. 1836.
 4. **556.** MEXICAN soldier, ætat. 40, with cicatrized depression of the frontal and nasal bones. Slain at the battle of San Jacinto.
 5. **557.** MEXICAN soldier, ætat. 50, slain at San Jacinto. A rifle ball has entered the occipital bone and passed out of the left parietal.
 6. **558.** MEXICAN soldier, ætat. 40, slain at San Jacinto. Skull perforated by a ball.
- Nos. 555 to 558, inclusive, from J. J. Audubon, Esq.
7. **722.** Singularly formed skull from the battle-field of San Jacinto, in Texas, A. D. 1836. I. C. 79. Dr. Trudeau.
 8. **689.** MEXICAN Indian, slain at the battle of San Jacinto, in Texas, A. D. 1836. Man, ætat. 30. I. C. 91. W. M. Blackford, Esq.

V. NEGRO GROUP.

1. *American-Born.*

(Case 12.)

1. **1.** NEGRO, born in the United States, ætat. 30. I. C. 83.
2. **2.** NEGRO, born in the United States, ætat. 50. F. A. 69°. I. C. 83.
3. **69.** NEGRESS, ætat. 80 years. I. C. 79.
4. **74.** NEGRO; died of malignant polypus of the antrum. I. C. 76. Dr. F. Turnpenny.
5. **548.** NEGRO of St. Domingo, ætat. 30. I. C. 86.
6. **549.** NEGRESS, ætat. 20. I. C. 83.

7. **900.** NEGRO, born in the United States, ætat. 60. I. C. 75.
 8. **983.** NEGRO, born in the United States. F. A. 76°. I. C. 84.



NEGRO (983).

9. **984.** NEGRO, born in the United States, ætat. 50. F. A. 79°. I. C. 86.
 10. **1301.** Fragment of a NEGRO skull of remarkable thickness.
 11. **1302.** NEGRO convict.
 12. **1318.** NEGRO. History unknown.
 13. **1320.** NEGRESS of South Carolina, ætat. 30. I. C. 73. Dr. Hardy.
 14. **1321.** Cast of the skull of a NEGRO, remarkable for the flatness of the lateral or temporal regions, and for a grooved surface over the posterior part of the coronal suture, and deep depressions which supply the place of the parietal protuberances. Dr. J. Wyman, of Boston. See Nos. 444, 893 and 1290.
 15. **235.** Cast of a NEGRO skull.
 16. **236.** Cast of a NEGRO skull.

2. *Native Africans.*

(Cases 12-13.)

1. **12.** NATIVE AFRICAN boy. Dr. W. S. W. Ruschenberger.
2. **114.** NEGRO, from Western Africa.
3. **421.** NATIVE AFRICAN, male of the BENGUELLA tribe, ætat. about 40 years. I. C. 88. Dr. J. W. Russell, 1835.
4. **422.** NATIVE AFRICAN, female of the MINA tribe, ætat. about 30 years. I. C. 80. Dr. Russell.
5. **423.** NATIVE AFRICAN, male of the MOZAMBIQUE tribe, ætat. between 40 and 50 years. I. C. 85. Dr. Russell.
6. **1245.** MOZAMBIQUE NEGRO: man, ætat. 60. I. C. 80. Mr. Jno. Watson, through Dr. G. Watson, 1845.
7. **237.** Cast of a MOZAMBIQUE skull. Presented by Mr. Harlan.
 [In the Benguella skull (No. 421), the forehead is broad and capa-

cious, the calvarial arch full and regular, the posterior region appears elongated in consequence of the angle formed by the junction of a large *Wormian* piece and the occiput proper; face regular, superior maxillæ prognathous. The Mozambique skull (No. 423), resembles in form that of the Benguella and Kroos. In another Mozambique head (No. 1245), however, the forehead is narrower and higher. The cast of a Mozambique skull (No. 237), presents an exceedingly low and degraded form.]

8. **580.** NATIVE AFRICAN of the MACUA tribe: boy, ætat. 16. F. A. 75°. I. C. 67. Dr. Lobé of Havana.
9. **640.** NATIVE AFRICAN of the DEY tribe, Liberia. Dr. Skinner.
10. **645.** NATIVE AFRICAN of the GRABBO tribe, near Liberia: man, ætat. 30. F. A. 77°. I. C. 97.
11. **646.** NATIVE AFRICAN of the BASSA tribe of Liberia: woman, ætat. 30. F. A. 80°. I. C. 77.
12. **647.** NATIVE AFRICAN of the BASSA tribe of Liberia: man, ætat. 30. I. C. 98.
13. **648.** NATIVE AFRICAN of the BASSA tribe, ætat. 50. I. C. 88. I received this skull, together with the preceding three, from Dr. Robert McDowell, with the following memorandum:—
 “The skull of an African *Gree-gree* man, or doctor. For committing some crime he was tried by the ordeal of drinking *red-wood water*, and being found guilty, was cut in pieces, and thrown into the St. John’s river, Grand Bassa, Africa, where his skull was found—a very good specimen of the Bassa tribe. A. D. 1835.
14. **823.** NEGRESS, ætat. 60, with gray, woolly hair. I. C. 73. *Crania Ægyptiaca*, plate 12, fig. 7.



NEGRESS (823).

15. **898.** NATIVE AFRICAN.

The following series of 29 skulls, of Native African Negroes, was received from Don José Rodriguez Cisneros, M. D., of Havana.

16. **901.** NATIVE AFRICAN. F. A. 76°. I. C. 76.
17. **902.** NATIVE AFRICAN, ætat. 30. F. A. 76°. I. C. 86.
18. **903.** NATIVE AFRICAN. F. A. 77°. I. C. 80.
19. **904.** NATIVE AFRICAN, ætat. 20. F. A. 76°. I. C. 79.
20. **905.** NATIVE AFRICAN, ætat. 30. F. A. 75°. I. C. 85.
21. **906.** NATIVE AFRICAN, ætat. 12. F. A. 79°.
22. **907.** NATIVE AFRICAN, ætat. 14.
23. **908.** NATIVE AFRICAN, ætat. 25. F. A. 82°. I. C. 99.
24. **909.** NATIVE AFRICAN, ætat. 16. F. A. 79°. I. C. 89.
25. **910.** NATIVE AFRICAN, ætat. 20. F. A. 75°. I. C. 78.
26. **911.** NATIVE AFRICAN, ætat. 14. F. A. 79°.
27. **912.** NATIVE AFRICAN, ætat. 25. F. A. 76°. I. C. 87.
28. **913.** NATIVE AFRICAN, ætat. 30. F. A. 76°. I. C. 92.
29. **914.** NATIVE AFRICAN, ætat. 17. F. A. 73°. I. C. 78.
30. **915.** NATIVE AFRICAN, ætat. 25. F. A. 77°. I. C. 88.
31. **916.** NATIVE AFRICAN, ætat. 16. F. A. 79°. I. C. 80.
32. **917.** NATIVE AFRICAN, ætat. 25. F. A. 78°. I. C. 73.
33. **918.** NATIVE AFRICAN, ætat. 40. F. A. 75°. I. C. 87.
34. **919.** NATIVE AFRICAN, ætat. 30. F. A. 80°. I. C. 96.
35. **920.** NATIVE AFRICAN, ætat. 25. F. A. 74°. I. C. 72.
36. **921.** NATIVE AFRICAN, ætat. 14.
37. **922.** NATIVE AFRICAN, ætat. 14. F. A. 74°.
38. **923.** NATIVE AFRICAN, ætat. 20. F. A. 81°. I. C. 86.
39. **924.** NATIVE AFRICAN, ætat. 16. F. A. 73°. I. C. 76.
40. **925.** NATIVE AFRICAN, ætat. 30. F. A. 81°. I. C. 80.
41. **926.** NATIVE AFRICAN, ætat. 14.
42. **927.** NATIVE AFRICAN, ætat. 16. F. A. 80°. I. C. 90.
43. **928.** NATIVE AFRICAN, ætat. 35. F. A. 77°. I. C. 88.
44. **929.** NATIVE AFRICAN, ætat. 40. F. A. 77°. I. C. 83.

Second series of crania of Native African tribes, Nos. 958 to 981, inclusive, from Don José Rodríguez Cisneros, M. D., of Havana.

45. **958.** NATIVE AFRICAN Negro, ætat. 30. F. A. 79°. I. C. 89.
46. **959.** NATIVE AFRICAN, ætat. 7.
47. **960.** NATIVE AFRICAN Negress, ætat. 18. F. A. 76°. I. C. 82.
48. **961.** NATIVE AFRICAN : girl of 14 years. F. A. 82°.
49. **962.** NATIVE AFRICAN Negro, ætat. 18. F. A. 76°. I. C. 87.
50. **963.** NATIVE AFRICAN Negro, ætat. 30. F. A. 71°. I. C. 82.
51. **964.** NATIVE AFRICAN Negro, ætat. 40. F. A. 80°. I. C. 93.
52. **965.** NATIVE AFRICAN Negress, ætat. 16. F. A. 77°. I. C. 72.
53. **966.** NATIVE AFRICAN Negress. F. A. 79°. I. C. 79.
54. **967.** NATIVE AFRICAN : girl of 18. I. C. 71.

55. **968.** NATIVE AFRICAN Negro, ætat. 25. F. A. 73°. I. C. 87.
 56. **969.** NATIVE AFRICAN : girl of 12 years. F. A. 74°.
 57. **970.** NATIVE AFRICAN : girl of 16. F. A. 78°. I. C. 76.
 58. **971.** NATIVE AFRICAN Negro, ætat. 25. F. A. 80°. I. C. 86.
 59. **972.** NATIVE AFRICAN : boy of 15 years. F. A. 75°.
 60. **973.** NATIVE AFRICAN Negro, ætat. 25. F. A. 79°. I. C. 93.
 61. **974.** NATIVE AFRICAN Negro. F. A. 72°. I. C. 85.
 62. **975.** NATIVE AFRICAN Negro, ætat. 25. F. A. 81°. I. C. 99.
 63. **976.** NATIVE AFRICAN Negro, ætat. 18. F. A. 80°. I. C. 82.
 64. **977.** NATIVE AFRICAN, ætat. 16. F. A. 83°. I. C. 86.
 65. **978.** NATIVE AFRICAN Negro, ætat. 20. F. A. 80°. I. C. 78.
 66. **979.** NATIVE AFRICAN, ætat. 16. F. A. 73°. I. C. 77.
 67. **980.** NATIVE AFRICAN, ætat. 14.
 68. **981.** NATIVE AFRICAN Negro, ætat. 30. F. A. 75°. I. C. 97.
 69. **993.** NATIVE AFRICAN Negro, ætat. 30. F. A. 81°. I. C. 78.
 70. **994.** NATIVE AFRICAN Negro, ætat. 30. F. A. 76°. I. C. 76.
 71. **1093.** GOLAH Negro, warrior, ætat. 70. F. A. 77°. I. C. 85.
- Liberia.
72. **1094.** GOLAH warrior, ætat. 40. F. A. 77°. I. C. 90.
 73. **1095.** PESSAH : man, ætat. 40. F. A. 80°. I. C. 90.
 74. **1096.** PESSAH : man, ætat. 30. F. A. 76°. I. C. 80.
 75. **1097.** PESSAH : man, ætat. 40. F. A. 77°. I. C. 83.

The five preceding skulls are of Negroes killed in the attack on Heddington, in Liberia, A. D. 1840.

76. **1098.** KROOMAN, ætat. 40. F. A. 79°. I. C. 92.
77. **1099.** KROOMAN, ætat. 50. F. A. 73°. I. C. 95.
78. **1100.** DEY : man, ætat. 30. F. A. 79°. I. C. 89.
79. **1101.** EBOE : man, ætat. 40. F. A. 74°.
80. **1102.** EBOE : woman, ætat. 30. F. A. 75°. I. C. 71.

The last two were hanged in Liberia for murder.

81. **1103.** NATIVE AFRICAN : woman, ætat. 25. F. A. 75°. I. C. 65.

The preceding eleven skulls of Native Africans were received A. D. 1842, from Dr. S. M. E. Goheen, for several years physician to the colony of Liberia in Western Africa.

[The Golah skull (No. 1093), is remarkable for its massiveness and density. The calvaria is well-formed, expanding from the frontal region back towards the occiput, which is flat and shelving. The two halves of the os frontis form a double inclined plane, whose summit coincides with the sagittal suture. The basis cranii is full and round, and the mastoid processes large; nasal bones flat, and falling in below the glabella; orbits large, and widely sepa-

rated; malar bones laterally prominent. This latter feature, in conjunction with the double inclination of the os frontis, gives to the head a pyramidal form. The superior maxilla is distinctly everted at the alveolar margin. Another head of the same tribe is longer and narrower, and, in consequence of the flatness of the malar bones, has less of the pyramidal form.—The calvaria of a Pessah skull (No. 1095) is oblong in figure; the forehead flat, and receding; superciliary ridges ponderous; malar bones large and flat; upper jaw everted; lower jaw retracted, occiput protuberant. In a Kroo head (No. 1098), I find the forehead broad and high; the calvaria regularly arched, and having its greatest diameter between the anterior and inferior parts of the parietalia; the occipital region flat and shelving downwards and forwards to a small foramen magnum; mastoid processes large; face very broad; malar bones shelving slightly like those of the Eskimo; inter-orbital space very large; upper jaw slightly everted; teeth rather small, and vertical; zygomatic fossæ deep. In another Kroo skull, the vertex is flat, the forehead recedent, and the jaws more prognathous. The calvaria of a Dey skull is narrow in front and broad posteriorly, with a flat vertex; face small, regular, and compact, and, were it not for the projection of the superior alveolus, might be considered as almost European. The skull of an Eboe (No. 1102), presents characters similar to those just detailed. It is chiefly remarkable for the great obliquity of the orbital opening, and the unusual smallness of the mastoid processes.]

82. **1224.** CONGO NEGRO; a young native. Remarkable for the absence of the coronal, sagittal and lambdoidal sutures. Dr. David Gilbert, 1844.

83. **1107.** HOTTENTOT: woman, ætat. 35. F. A. 75°. I. C. 68.

84. **1244.** HOTTENTOT: woman, ætat. 40. I. C. 75.

85. **1351.** HOTTENTOT: woman, ætat. 25. I. C. 83.

The above three Hottentot skulls were sent me by Mr. John Watson, of Cape Town, through Dr. Gavin Watson, 1845-8.

86. **1358.** KAFFER skull: man, ætat. 50. I. C. 80. From Mr. John Watson, through Dr. G. Watson.

87. **1360.** Cast of a KAFFER skull. Prof. Retzius.

88. **238.** Cast of the skull of a BOSJIE woman. Presented by Mr. Harlan.

[The three Hottentot heads are long, compressed anteriorly; foreheads low; the whole face small and prognathous, the slope, from

the glabella to the upper alveolus, being continuous; the occipital region protuberant. Only one of these heads approximates the pyramidal form. The two Kaffir skulls are characterized by high, peaked foreheads; the sagittal suture marked by a prominent ridge, and the calvaria pyramidal in form.]

3. *Hovahs.*

(*Case 13.*)

1. **1306.** HOVAH of Madagascar: man, ætat. 25. I. C. 82.
2. **1307.** HOVAH of Madagascar: man, ætat. 40. I. C. 83.

These two Hovah skulls were procured by Lieut. Isaac G. Strain, U. S. N., at Majunga, Bembatooka Bay, on the west coast of Madagascar, A. D. 1846.

The HOVAHS, who constitute the ruling caste of this island, are a black race closely allied to the Kaffers. They are more or less blended with the Arabs, Hindus and Malays, but not to such a degree as to materially affect their national traits or their peculiar language, as Mr. Crawford has shown.

[These two Hovah skulls have the base long and narrow, the vertex flat, the orbits narrow and high, and the superior maxillæ prominent.]

IV. ALFORIAN RACE.

Australians.

(*Case 13.*)

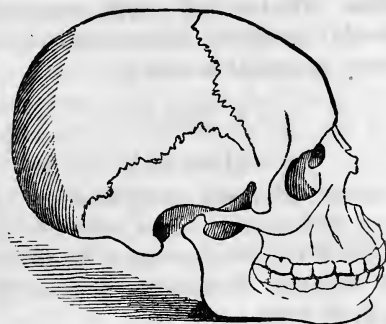
The following three native Australian skulls were presented to me A. D. 1849, by Dr. Charles Nicholson, of Sydney, New South Wales.

1. **1450.** AUSTRALIAN woman, ætat. 40. I. C. 71.
2. **1451.** Native AUSTRALIAN man, from Mount Abrupt, in the Australian Grampians. Ætat. 50. I. C. 83.
3. **1452.** Native AUSTRALIAN woman, ætat. 40. I. C. 63.
4. **1327.** AUSTRALIAN of Port St. Philip, New South Wales.

This man, whose name was Durabub, was killed in a fray after having himself killed two savages of a hostile tribe, A. D. 1841. His skull is the nearest approach to the Orang type that I have seen. Ætat. 40. I. C. 81.

[It is a truly animal head. The forehead is exceedingly flat and recedent, while the prognathism of the superior maxillary almost degenerates into a muzzle. The alveolar arch, instead of being

round or oval in outline, is nearly square. The whole head is elongated and depressed along the coronal region, the basis cranii



AUSTRALIAN (1327).

flat, and the mastoid processes very large and roughly formed. The immense orbits are overhung by ponderous superciliary ridges. This latter feature is still more evident in No. 1451 of the Collection, which, though varying somewhat in type, presents in general the same brutal appearance.]

5. **1328.** Native AUSTRALIAN boy, about 16 years old, native of Port St. Philip, at which place he was hanged for murder. I. C. 82. Procured in Calcutta by my friend Dr. Chas. Huffnagle, and by him presented to me, A. D. 1847.
6. **1261.** NEW HOLLANDER, of a tribe near the Goulbourn settlement : man, ætat. 60. I. C. 81.
7. **1262.** NEW HOLLANDER, from a tribe of the Goulbourn settlement, killed in an affray with the people of another tribe : woman, ætat. 55. I. C. 75.

The two preceding skulls were sent me by Charles Nicholson, M. D., of Sydney, in Australia, 1845. See Proceedings of the Academy of Natural Sciences, for December, 1845.

8. **1289.** NATIVE of NEW HOLLAND : man, ætat. 60. I. C. 65. From J. W. Wilton, Esq., Gloucester, England, 1846.
9. **239.** Fragment of the skull of a NEW HOLLANDER.
10. **240.** AUSTRALIAN : man, from Moreton Bay.
11. **241.** AUSTRALIAN : woman, from Moreton Bay.

Oceanic Negroes.

1. **435.** OCEANIC NEGRO, from the Indian Archipelago : woman, ætat. 40. I. C. 77. Dr. Doornik.
2. **1343.** TASMANIAN, of Van Diemen's land (?) Oceanic Negro of the Indian Archipelago ; ætat. 35. I. C. 76.

VI. MIXED RACES.

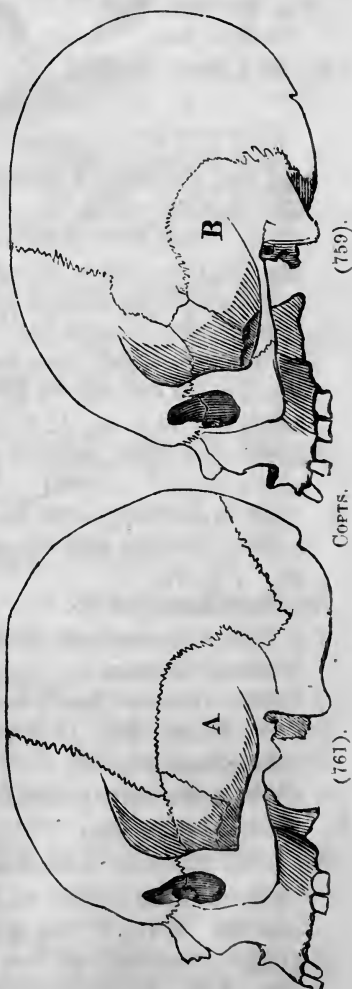
Copts.

(Case 14.)

1. **759.** COPT, from a Convent near Cairo, on the road to Abersabel : woman, ætat. 20. F. A. 78°. I. C. 77. *Crania Ægyptiaca*, page 57. From G. R. Gliddon, Esq., late United States Consul for the City of Cairo.
2. **760.** COPTIC child, a year old. Obtained with No. 759.
3. **761.** COPT of Lower Egypt : man, ætat. 40. F. A. 81°. I. C. 85. Obtained with No. 759.

[Dr. Morton describes No. 761 as elongated, narrow, but otherwise mediately developed in front, with great breadth and fulness in the whole posterior region. The nasal bones, though prominent, are broad, short, and concave, and the upper jaw is everted. There is also a remarkable distance between the eyes. See *Crania Ægyptiaca*, p. 57.]

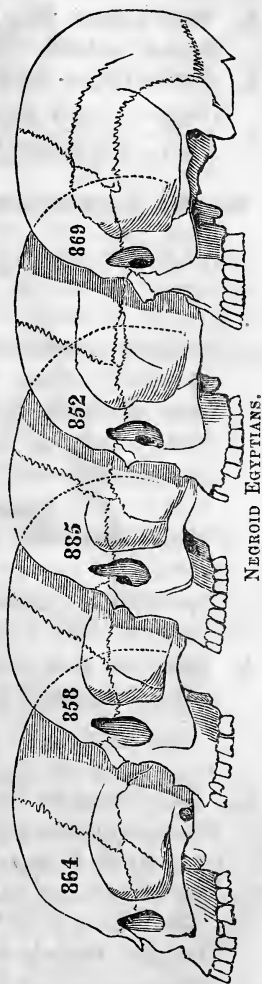
4. **795.** Skull exhumed from the front of the First or Northern Brick Pyramid of Dashour, Memphite necropolis, by Mr. Perring, Civil Engineer. Blends the Coptic with the Egyptian form. F. A. 76°. I. C. 75. *Crania Ægyptiaca*, page 7. For an engraving of this skull, see page 39.



5. **786.** Skull sent me from Old Cairo, in Egypt, by Mr. Gliddon, who knew nothing of its history. A eunuch? ætat. 40. I. C. 77.

Negroid Egyptians.

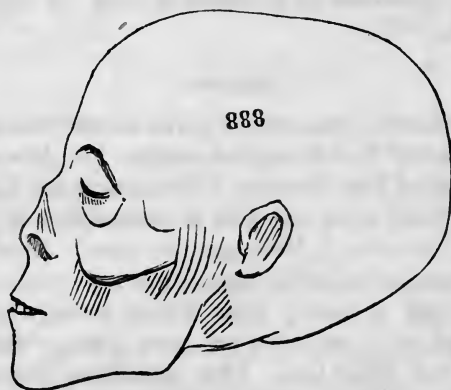
1. **800.** NEGROID form: head of a child.
2. **835.** NEGROID form: woman of 30, with long, coarse hair. F. A. 73°. I. C. 71. *Crania Ægyptiaca*, plate 4, fig. 3.
Nos. 800 and 835 are from G. R. Gliddon, Esq.
3. **852.** NEGROID Egyptian: man, ætat. 50. F. A. 75°. I. C. 77. *Crania Ægyptiaca*, page 17.
4. **857.** EGYPTIAN blended with the Negro form? Hair fine. F. A. 77°. I. C. 83. *Crania Ægyptiaca*, plate 7, fig. 3.
5. **858.** NEGROID Egyptian: man, ætat. 60. F. A. 77°. I. C. 87. *Crania Ægyptiaca*, page 17.
Nos. 852, 857 and 858 are from M. Clot Bey.
6. **864.** NEGROID Egyptian: woman, ætat. 40. F. A. 75°. I. C. 77. *Crania Ægyptiaca*, page 17.
7. **869.** NEGROID Egyptian: man, ætat. 50. F. A. 76°. I. C. 88. *Crania Ægyptiaca*, page 17.
8. **874.** EGYPTIAN and NEGRO form? child of ten years.
9. **885.** NEGROID form: woman, ætat. 40. F. A. 76°. I. C. 77. *Crania Ægyptiaca*, page 17.
Nos. 864, 869, 874 and 885 are from G. R. Gliddon, Esq.
10. **1238.** Mummied head from Egypt. NEGROID form; hair long, coarse and curling. Dr. C. Pickering. 1845.
11. **1239.** Mummied head from Egypt. NEGROID form? man, ætat. 50. I. C. 75. Dr. Charles Pickering. 1845.



12. **1294.** Embalmed head from the Grottoes of Maabdeh. NEGROID form (mixed Negro and Egyptian) with short frizzled hair: man, ætat. 50. From A. C. Harris, Esq., of Alexandria, in Egypt, A. D. 1846.

Nubians.

1. **787.** Modern NUBIAN? Nation uncertain. From Old Cairo. Woman, ætat. 30. I. C. 80.
 2. **839.** NUBIAN form? man, ætat. 50. F. A. 780. I. C. 74. Thebes. Crania Ægyptiaca, plate 8, fig. 3.
 3. **888.** NUBIAN form? man, ætat. 35. I. C. 85. Crania Ægyptiaca, page 14.
- Nos. 787 to 888 from G. R. Gliddon, Esq.



NUBIAN? (888).

4. **242.** Cast of a NUBIAN skull. From the late Dr. Harlan's collection. Presented by Mr. Harlan.

Hispano-Peruvians.

1. **50.** CHOLO, or HISPANO-PERUVIAN? From the church vault at Old Callao, into which were thrown the dead bodies of the Royalist garrison of San Philippo, A. D. 1825. I. C. 96. Dr. H. S. Rennolds, U. S. Navy.
2. **61.** CHOLO, or HISPANO-PERUVIAN? ætat. 50. I. C. 95. Dr. H. S. Rennolds, U. S. Navy.

Hispano-Indian.

1. **690.** MEXICAN soldier, with a cicatrised sabre wound of the os

frontis. Mixed INDIAN and SPANIARD? ætat. 30. Slain at San Jacinto, Texas. I. C. 81. J. J. Audubon, Esq.

Negroid Indians.

1. **408.** CHOCTAW and NEGRO? I. C. 79. Dr. Wilson, who dissected this man, considered him a full-blooded Choctaw; but the skull strongly indicates a mixture of the Negro.
2. **636.** SAMBO: mixed race of Venezuela INDIAN and NEGRO: man, ætat. 40. I. C. 81. Ex-President Vargas, of Caraccas.
3. **982.** Mixed NEGRO and INDIAN? I. C. 78.

Malayo-Chinese.

1. **1342.** MALAYO-CHINESE of the Island of Java: man, ætat. 30. I. C. 84. Presented by Dr. Mead, through Dr. John Watson, of New York, 1847.

Mulattoes.

1. **1234.** MULATTO? man, ætat. 50, with an anchylosed fracture and displacement of the left occipital condyle. Dr. Edward Hallowell.
2. **1319.** Skull of John Voorhees, a MULATTO porter, born in Chester county, Pennsylvania, and died of consumption in the Blockley Hospital, November 5, 1846, aged 35 years. About an hour before his death, he called the nurse to him and confessed as follows: That eighteen or twenty years before, having a hatred against another boy of his own color, two years younger than himself, he strangled and killed him. After committing the murder he became alarmed, and placed the dead body in a chair near the window, hoping to revive it. He then fled; and not having been seen to enter the house was never suspected of the murder; and the boy, being found dead in the chair, was supposed to have died of apoplexy. I have these facts and the skull from my friend Dr. Adolphus L. Heerman.

VII. LUNATICS AND IDIOTS.

(Case 14.)

1. **9.** NEGRO IDIOT, ætat. 60. I. C. 70.
2. **10.** ANGLO-AMERICAN boy: hydrocephalous, aged 8 years.
3. **14.** ANGLO-AMERICAN LUNATIC: woman, ætat. 45. F. A. 80°. I. C. 85. 1830.

4. **17. MULATTO LUNATIC.** Died of religious mania, 1831. Man, ætat. 22. I. C. 77.
5. **36. ANGLO-AMERICAN IDIOT :** man, ætat. 40. I. C. 81.
6. **45. ANGLO-AMERICAN LUNATIC,** for several years confined in the cells of the Philadelphia Hospital. I. C. 91.
7. **55. NEGRO LUNATIC,** ætat. 40. I. C. 89.
8. **57. LUNATIC IRISHMAN,** (Celt) ætat. 40. F. A. 79°. I. C. 82.
9. **58. GERMAN LUNATIC :** man, ætat. 70. I. C. 87.
10. **62. LUNATIC ENGLISHMAN,** aged 30 years. I. C. 92. 1833.
11. **63. NEGRO LUNATIC.** Died in the Philadelphia Hospital, A. D. 1832, aged 65 years. I. C. 84.
12. **64. MULATTO LUNATIC :** woman, ætat. 18. I. C. 76. Died of Cholera, A. D. 1832.
13. **431. MALAY IDIOT** of Amboyna : man, ætat. 30. I. C. 74. From Dr. Doornik.
14. **458. ANGLO-AMERICAN** female ; an IDIOT from birth. Died September, 1836, ætat. 70. I. C. 63. Dr. Henry S. Patterson.
15. **551. IDIOT :** EUROPEAN, ætat. 30. I. C. 79. From Dr. Doornik's collection. Presented by Dr. Jones, of New Orleans.
16. **841. IDIOTIC** head from Thebes : man, with fine hair. F. A. 65°? *Crania Ægyptiaca*, page 16.



Idiot (841).

17. **863. Head** of an IDIOT : man, ætat. 40. *Crania Ægyptiaca*, page 16.
18. **988. DUTCH IDIOT,** deaf and dumb : man, ætat. 30. I. C. 96.5. Dr. W. B. Casey, of Middletown, Connecticut.
19. **243. Skull** of an IDIOTIC NEGRESS, of a most remarkable charac-

ter. Presented by Mr. B. H. Warden, while these sheets were passing through the press.

VIII. SKULLS ILLUSTRATIVE OF GROWTH.

(Case 15.)

1. **65.** Skull of a child born at the seventh month. Dr. P. B. Goddard.
2. **66.** Child six months old. Dr. Goddard.
3. **419.** Head at the full period of utero-gestation.
4. **709.** Skull of a foetus at the sixth month of utero-gestation.
5. **1211.** Cranium of a child five months old.
6. **1212.** Cranium of a child nine months old.
7. **1213.** Cranium of a child eight months old.

Miscellaneous and Uncertain.

1. **244.** Cranium phrenologically marked, according to Dr. Spurzheim. From Dr. W. S. W. Ruschenberger.
2. **245.** Cranium phrenologically marked.
- 1-11. Eleven unclassified crania.

1045 Total.

It will be seen that this total differs from that given on page 16.

This discrepancy is due to the incorporation of several skulls received while these sheets were passing through the press. (See page 52, *note*, and page 102, No. 243).

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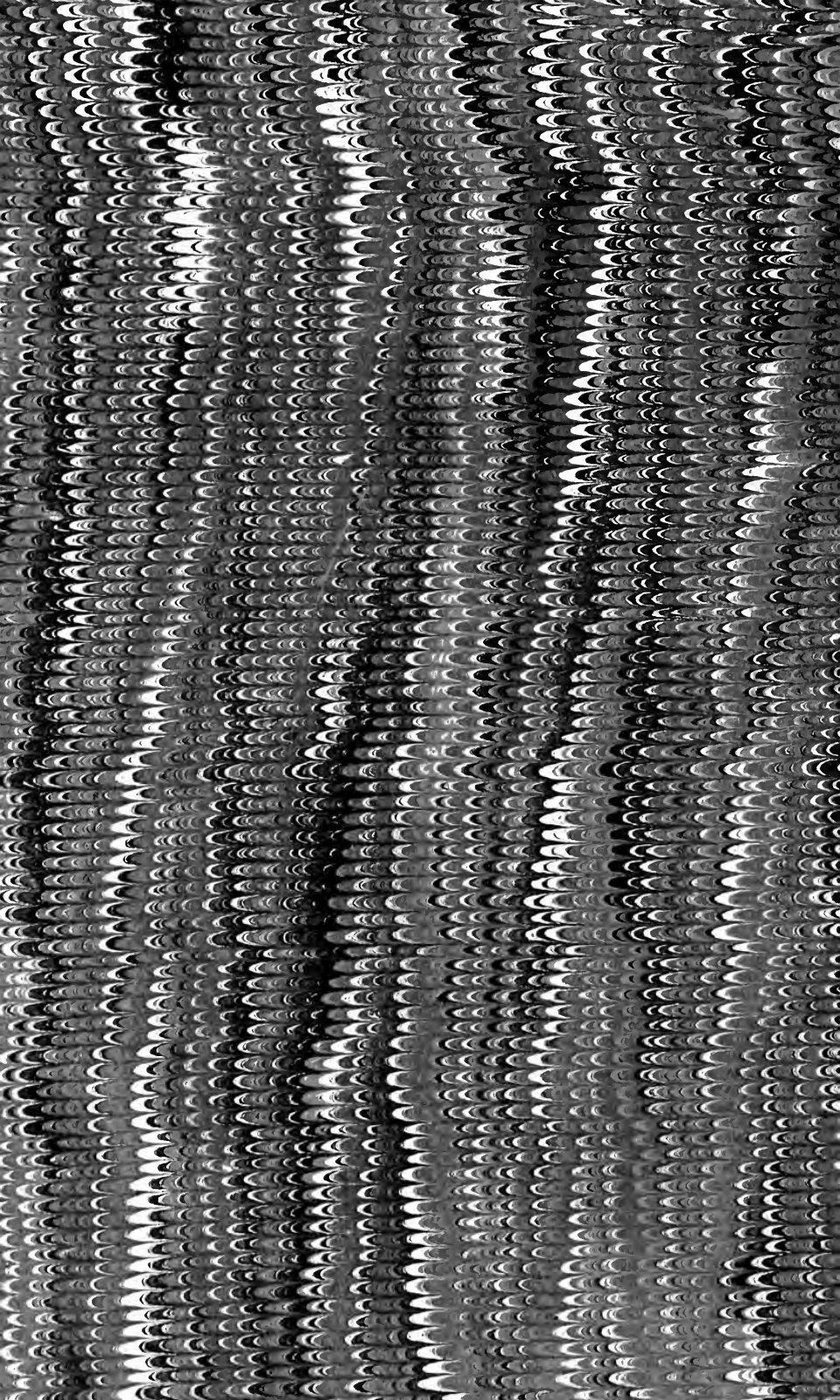
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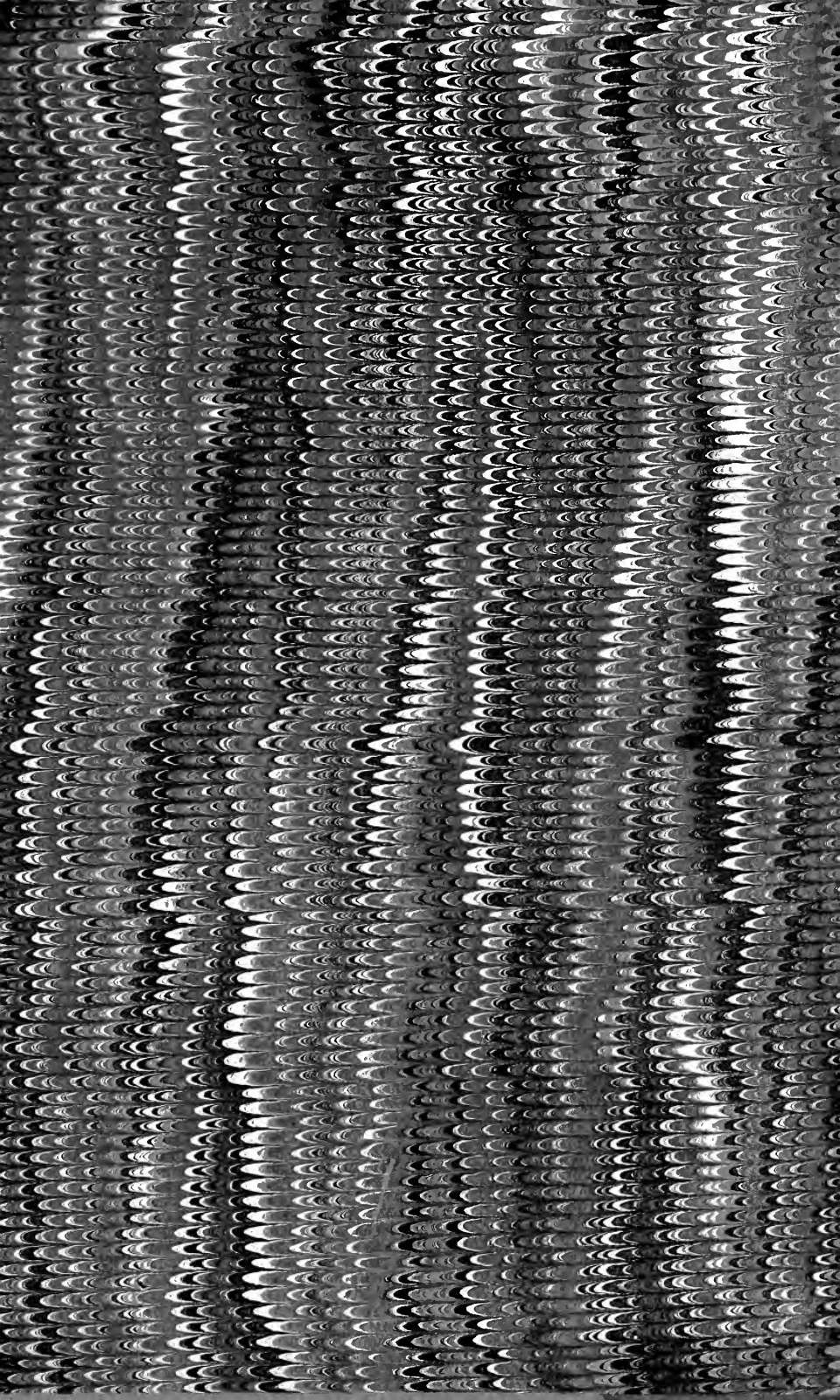
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